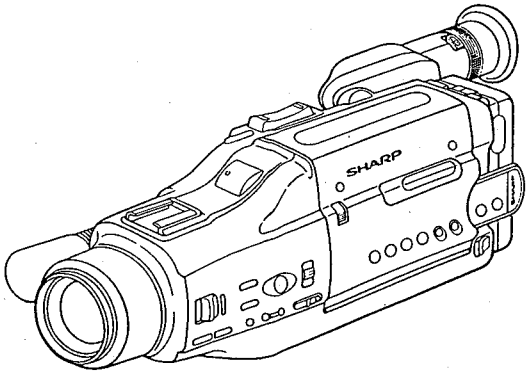
SHARP SERVICE MANUAL

S43V5VL-S6S//



VIDEO CAMERA RECORDER 8 PAL

MODELS VL-S6S/H/X/S68E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

The service manual covers only those items that differ from the **VL-N1S/H/X/N18E**. For information on any other items, refer to the service manual for the **VL-N1S/H/X/N18E**.

SHARP CORPORATION

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2. FEATURES

1. F1.8, 12 x power zoom
2. Neuro AE (Auto Exposure)
3. Detachable card remote control
4. 16:9 wide screen
5. Digital auto white balance
6. Digital full range auto focus
7. Ultra low light recording down to 2 lux (with gain-up function)
8. Auto head cleaner
9. LCD colour viewfinder
10. 1/10000, 1/4000, 1/1000, 1/250, 1/120, and standard 1/50-second switchable high-speed electronic shutter for blur-free still images
11. Fade in/out
12. Edit search function, convenient for assembly and insert recording
13. Flying erase head for editing
14. Warning indicators-low battery, low light, tape-end, etc.
15. 3-way power source: AC, rechargeable battery and car battery (with optional VR-P40CH)

3. SPECIFICATIONS

Format		8 mm standard
power source		DC 6V ⎓
Power consumption		6.4W (when the Auto Focus is in focus and the Power Zoom is off)
Signal system		PAL type colour signals.
Recording system		Luminance: FM recording Colour: Low-range conversion, direct phase shift recording system
Cassette		8 mm video tape, MP type
Tape speed	(SP)	Approx. 20.051 mm/second
	(LP)	Approx. 10.058 mm/second
Recording time Max.	(SP)	90 minutes (P5-90)
	(LP)	180 minutes (P5-90)
VIDEO Output		1 Vp-p, 75 ohms unbalanced, negative sync.
S/N ratio		48 dB (with Rohde & Schwarz noise meter)
AUDIO Output		– 8 dBs, impedance less than 2.2 kohms
Microphone input		Electret condenser microphone
Pickup		1/3" CCD image sensor (approx. 320,000 pixels, including optical black)
Minimum required illumination		2 Lux (F1.8, with Gain-up)
Lens		F1.8-F2.6, f = 6.5-78 mm, 12 x power zoom, full-rage auto focus with macro function
Filter diameter		43 mm
Viewfinder		LCD colour viewfinder
Colour temperature compensation		Auto white balance with white balance lock
Operating temperature		0°C to + 40°C
Operating humidity		30% to 80%
Storage temperature		– 20°C to + 60°C
Dimensions (approx.)		102 x 109 x 305 mm (W/H/D)
Weight (approx.)		850 g (without battery pack, remote control, lithium battery, and video cassette)

AC Power Adapter / Battery Charger Specifications

Power Requirement:	110-240V, 50/60Hz
DC Output:	6.0V
Power Consumption:	23W
Dimensions (approx.) :	70 x 44 x 164mm (W/H/D)
Weight (approx.):	390 g (UADP-0158/0157/0160GEZZ) 460 g (UADP-0159GEZZ)

RF converter specifications

Output channel:	UHF channels 30-39 (VL-S6S) VHF channels 0 or 1 (VL-S6X)
Initial channel setting:	Channel 36 (VL-S6S) Channel 0 (VL-S6X)
Power source:	DC 5V ⎓ 50mA (from camcorder)
Dimensions:	65(W) x 31(H) x 52(D) mm (excluding cable)
Weight:	Approx. 110 g

SUPPLIED ACCESSORIES

Standard battery pack (BT-70)	Shoulder strap	RF converter (VL-S6S/X)
AC power adapter/battery charger	DC output cable	75 ohm coaxial cable (VL-S6S/X)
Infrared remote control unit	Lithium battery x 2	AV output cable (VL-S68E)

OPTIONAL ACCESSORIES

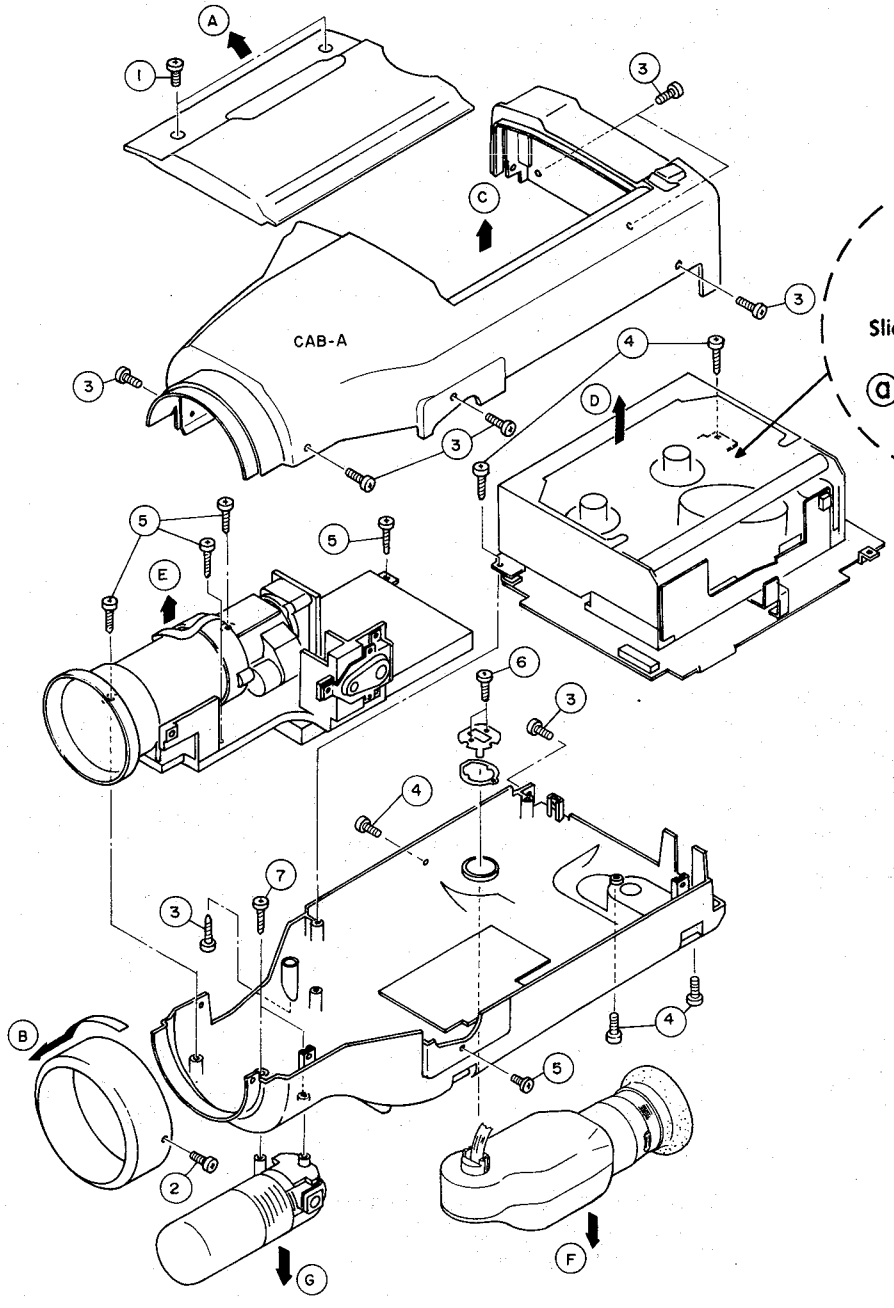
Standard battery pack (BT-70)	Battery pack for extended use (BT-80)
Car battery adapter/ charger (VR-P40CH)	A/V output cable (VR-C21M) (21-pin Euro-SCART)

Design and specifications are subject to change without notice.

5. DISASSEMBLY AND REASSEMBLY

5-1. DISASSEMBLING THE CABINET

1. Unscrew the two cassette cover fixing screws ① and remove the cassette cover in the direction shown by arrow Ⓐ.
2. Unscrew the lens cover fixing screw ② and turn the lens cover in the direction shown by arrow Ⓑ to remove it.
3. Unscrew the eight cabinet-A fixing screws ③ and remove the cabinet-A in the direction shown by arrow Ⓒ.
   (Disconnect the connector too from the PWB.)
4. Unscrew the five mechanism unit fixing screws ④ and remove the unit in the direction shown by arrow Ⓓ.
   (Disconnect the three connectors too from the PWB.)
5. Unscrew the five camera unit fixing screws ⑤ and remove the unit in the direction shown by arrow Ⓔ.
   (Disconnect the connector too from the PWB.)
6. Unscrew the two viewfinder fixing screws ⑥ and remove the viewfinder in the direction shown by arrow Ⓕ.
7. Unscrew the two microphone unit fixing screws ⑦ and remove the unit in the direction shown by arrow Ⓖ.



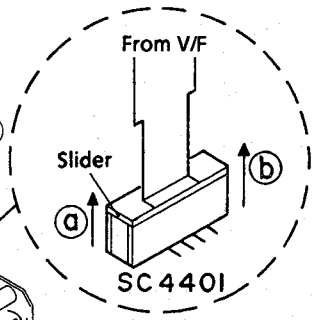
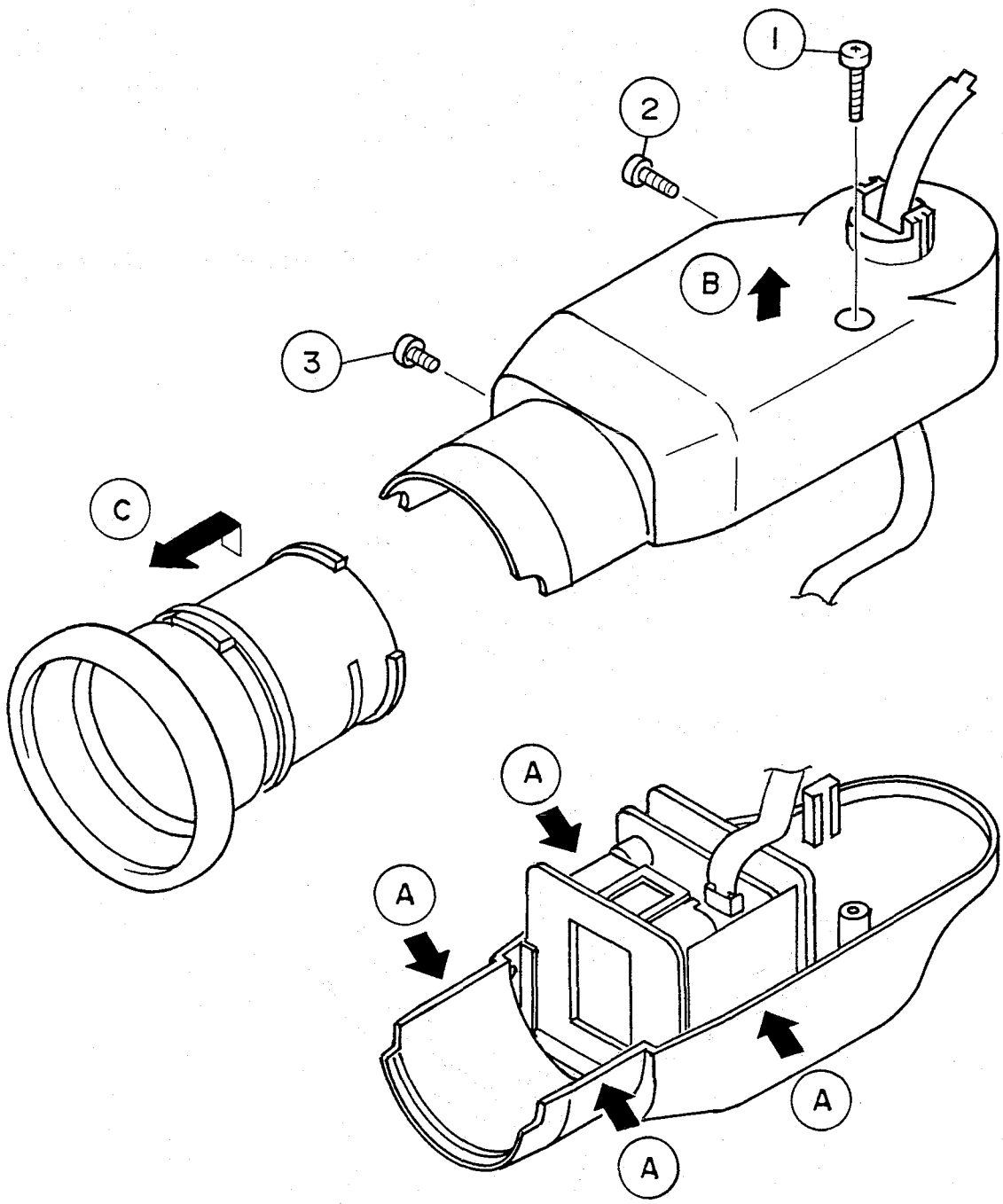


Figure A.

Caution:
Be careful to disconnect the FPC gently, otherwise the slider may be damaged. Lift up and unlock the slider with parts ⓐ and ⓑ, shown in Fig. A, at a level. No tilt and excessive force is allowed.

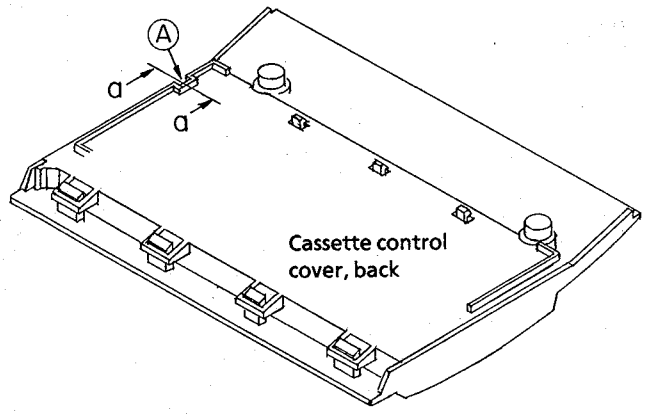
5-2. DISASSEMBLING THE VIEWFINDER

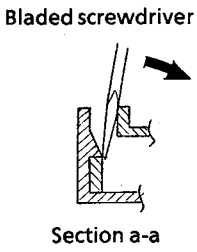
1. Unscrew the screws ①, ② and ③. Unhook the case (R) by pressing its sides in the direction of arrows Ⓐ.
2. Remove the case (L) in the direction of arrow Ⓑ.
3. Take out the eyepiece unit in the direction of arrow Ⓒ.



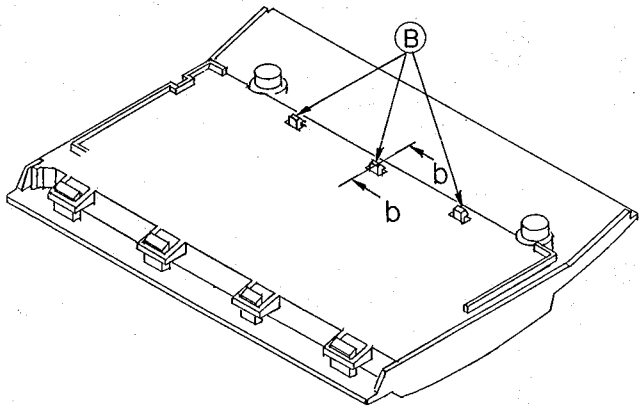
5-3. REMOVING THE CASSETTE CONTROL COVER

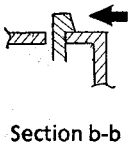
1. Put the tip of a bladed screwdriver in the hole Ⓐ. Tilt the screwdriver in the direction of arrow (in Section a-a) to undo the hook.



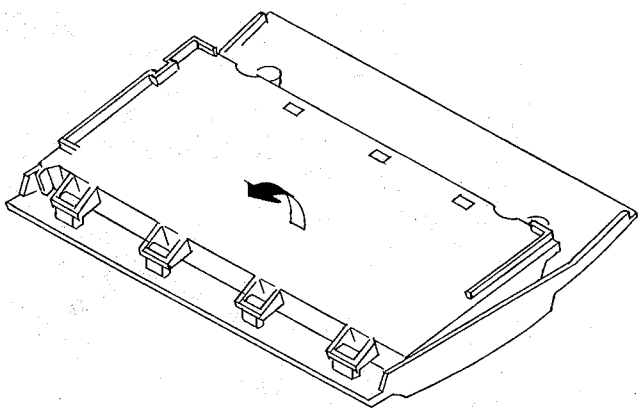


2. While undoing the above hook, push and undo the three hooks Ⓑ in the direction of arrow (in Section b-b).





3. Now open the holder in the direction of arrow.



7. ADJUSTMENT OF CAMERA SECTION

7-1. ADJUSTMENT OF CAMERA UNIT

7-1-2. DISASSEMBLY OF THE LENS UNIT

Removing the lens holder

Unscrew the fixing screw ① and slide the lens hook ⓐ in the direction Ⓐ to remove the lens holder.

Removing the CCD sensor

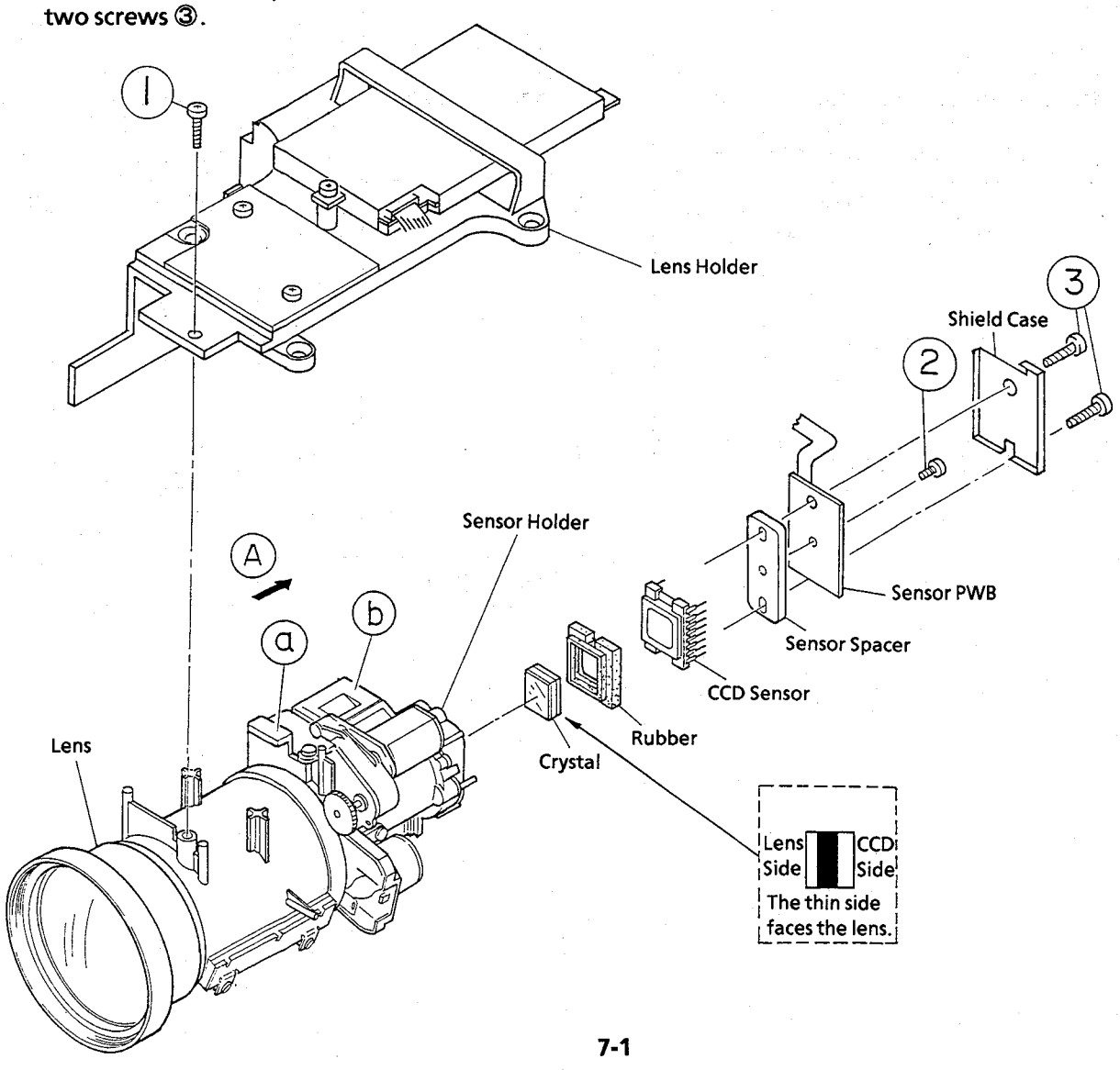
1. Unsolder the shield case off the sensor PWB.
2. Unsolder the CCD sensor off the sensor PWB.
3. Unscrew the screw ② to remove the sensor PWB.
4. Unscrew the two screws ③ to remove the sensor spacer, and then the CCD sensor.

Reassembling the CCD sensor

1. Get the lens unit upright (the CCD sensor with its face down), and put the crystal first and then the dust-proof rubber in the sensor holder. Place the crystal in such a way that its thin side faces the lens.
2. Insert the CCD sensor into the sensor holder (along the sensor holder's guide pin).
   Note:
   Insert the CCD sensor in the correct direction.
3. Mount the sensor spacer to the lens with the two screws ③.
   Note:
   Place the sensor spacer in such a way that its flat surface faces the CCD sensor surface.
4. Insert the CCD sensor pin carefully into the sensor PWB, and fix the sensor PWB with the screw ②.
5. Solder the CCD sensor pin with the sensor PWB.
   Note:
   Take care not to apply excessive heat.
6. Solder the shield case with the sensor PWB.

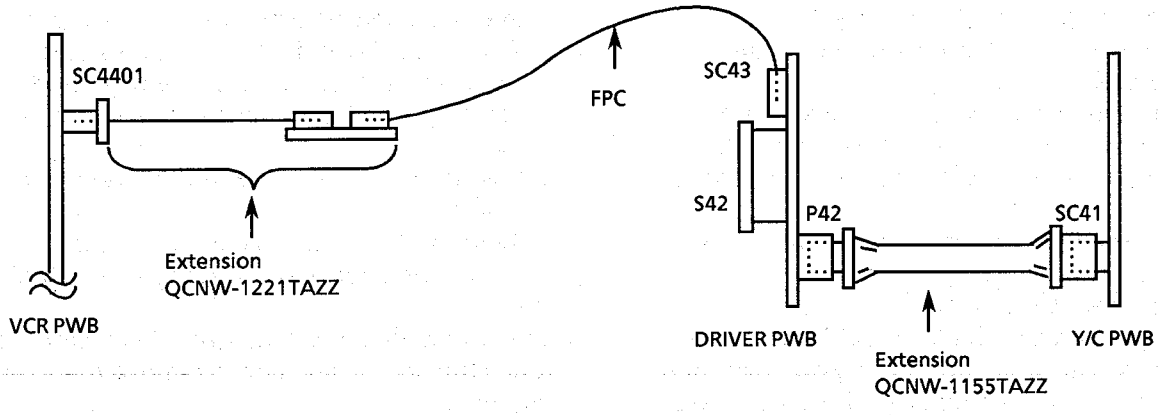
Notes:

- When handling the lens unit, take care not to touch the part ⓑ and not to remove the screw fixing the part ⓑ.
- The CCD sensor is not resistant to static electricity; avoid working places exposed to static electricity.
- When mounting the CCD sensor, take care not to let dust or any other foreign matter go into the lens.



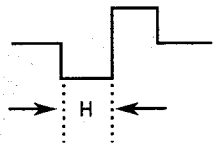
7-2. COLOUR LCD VIEWFINDER SYSTEM ADJUSTMENT

7-2-1. COLOUR VIEW FINDER

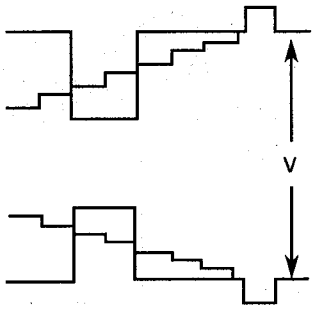


7-2-2. ADJUSTMENT

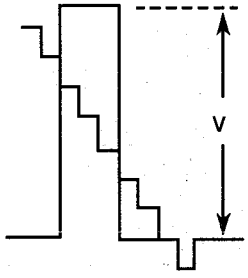
1. VCO (Voltage-Controlled Oscillator) adjustment

Item	———
Adjusting point	R847
Measuring point	TP855
Mode/conditions	Input signal: Colour bar signal C-VIDEO input: 1 Vp-p Input impedance: 16 kohms
Procedure	Using the oscilloscope, adjust the value "H" to specification. 
Specification	H = 2.0 ± 0.3µsec

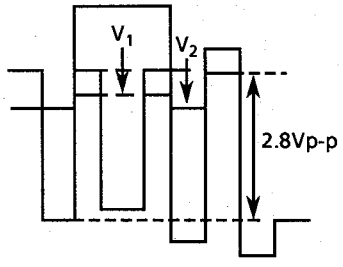
2. Brightness adjustment

Item	———
Adjusting point	R809
Measuring point	TP822
Mode/conditions	Input signal: Colour bar signal TP803-GND: Colour killing IRE scale: 0 (Black level)
Procedure	Using the oscilloscope, adjust the value "V" to specification. 
Specification	V = 7.6 ± 0.4Vp-p

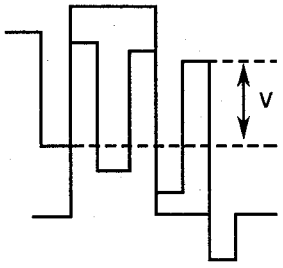
3. Contrast adjustment

Item	———
Adjusting point	R823
Measuring point	TP822
Mode/conditions	Input signal: Colour bar signal TP803-GND: Colour killing Pedestal ~ White peak IRE scale : 100 (100% white)
Procedure	Using the oscilloscope, adjust the value "V" to specification. 
Specification	V = 3.0 ± 0.1V

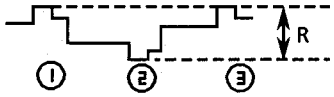
4. Burst phase adjustment

Item	———
Adjusting point	C852
Measuring point	TP823
Mode/conditions	Input signal: Colour bar signal
Procedure	Observe the oscilloscope screen and adjust so that the V1 and V2 levels should be minimum. 
Specification	V1, V2 ± 0.2V

5. Colour adjustment

Item	———
Adjusting point	R830
Measuring point	TP823
Mode/conditions	Input signal: Colour bar signal
Procedure	Using the oscilloscope, adjust the value "V" to specification. 
Specification	V = 2.8 ± 0.1V

6. White balance adjustment

Item	———
Adjusting point	R816 R819
Measuring point	TP821 TP822 TP823
Mode/conditions	IRE scale: 75 (White raster)
Procedure Connect the oscilloscope's channel 1 to TP822 and its channel 2 to TP821 (Red adjustment) and TP823 (Blue adjustment). Invert the channel 2's waveform, and add the channel 1 and 2 signals together.	Red adjustment  Adjust R816 and R819 so that the sync levels at ① and ③ be above the level ②. Blue adjustment
Specification	R = 0.1 ± 0.1V B = 0 ± 0.1V

7. Check of white balance

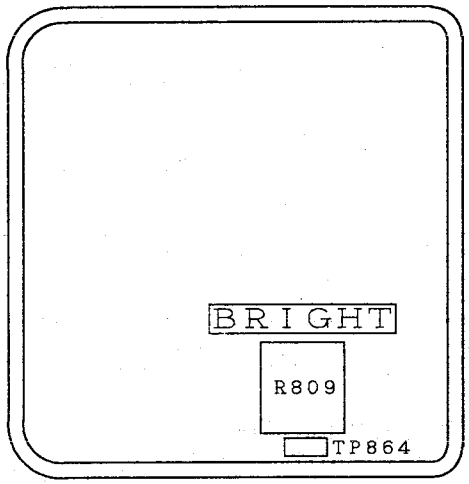
Item	———
Adjusting point	———
Measuring point	Input signal: TG-710 STEP signal
Mode/conditions	Compare with the go-or-not-go-standard. If out of spec, finely adjust the white balance.
Procedure	———

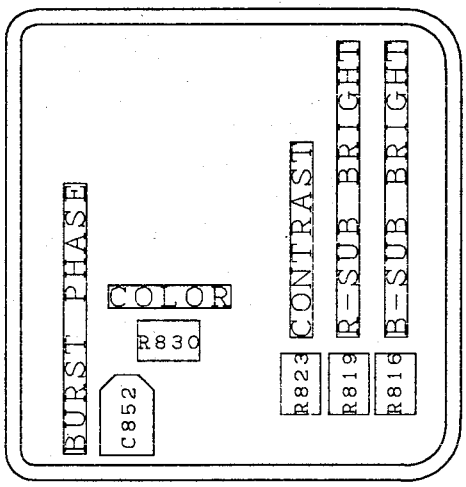
* Make the above adjustments at room temperatures. (Note that the panel has its temperature and visual angle characteristics.)

Location of test points and controls

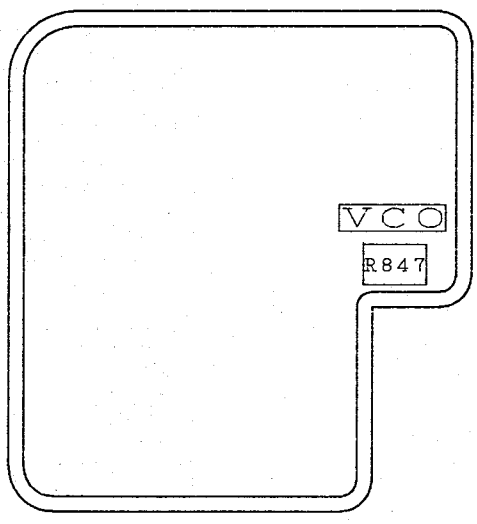
- VIEWFINDER PWB

VIEWFINDER Y/C PWB



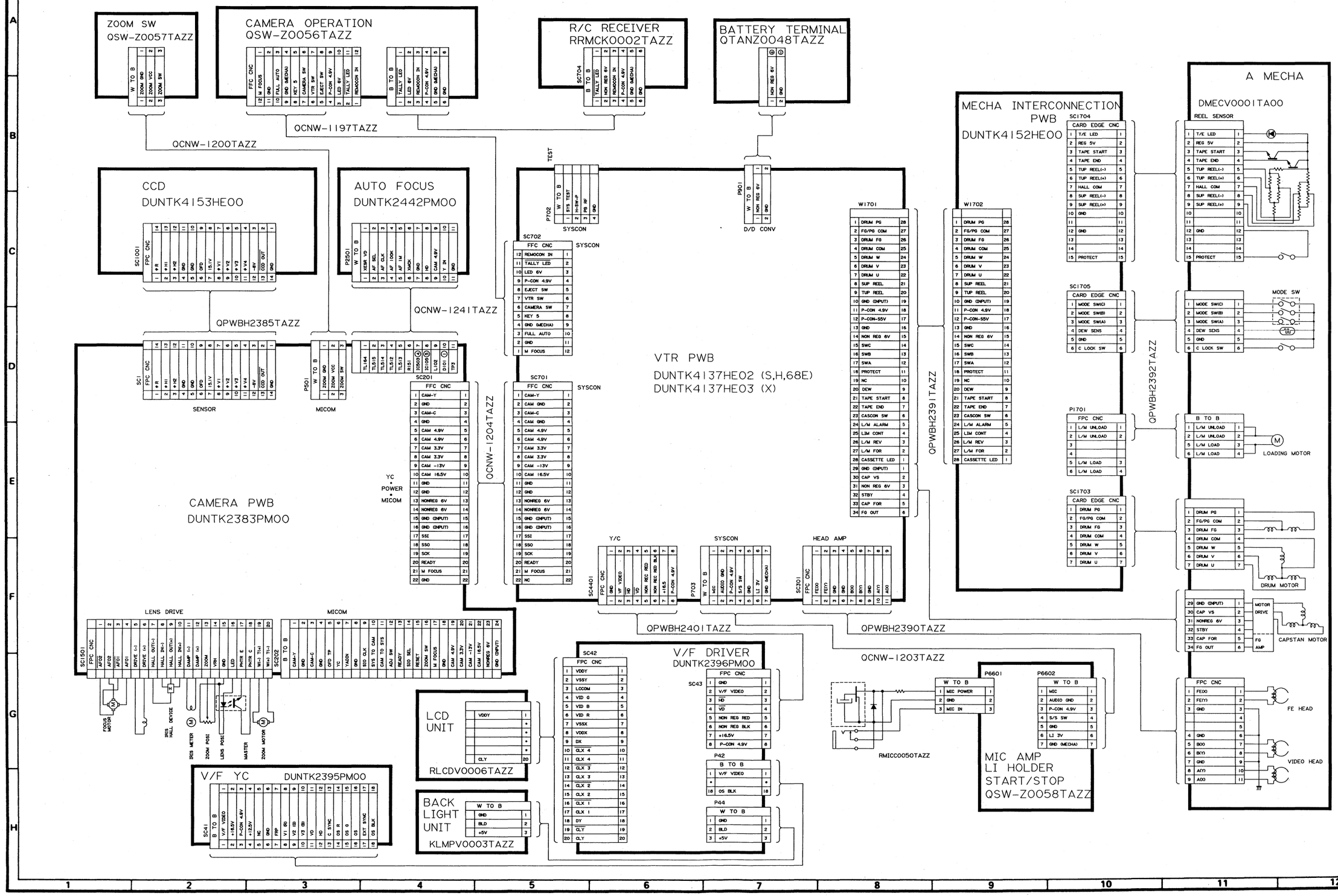


VIEWFINDER DRIVER PWB

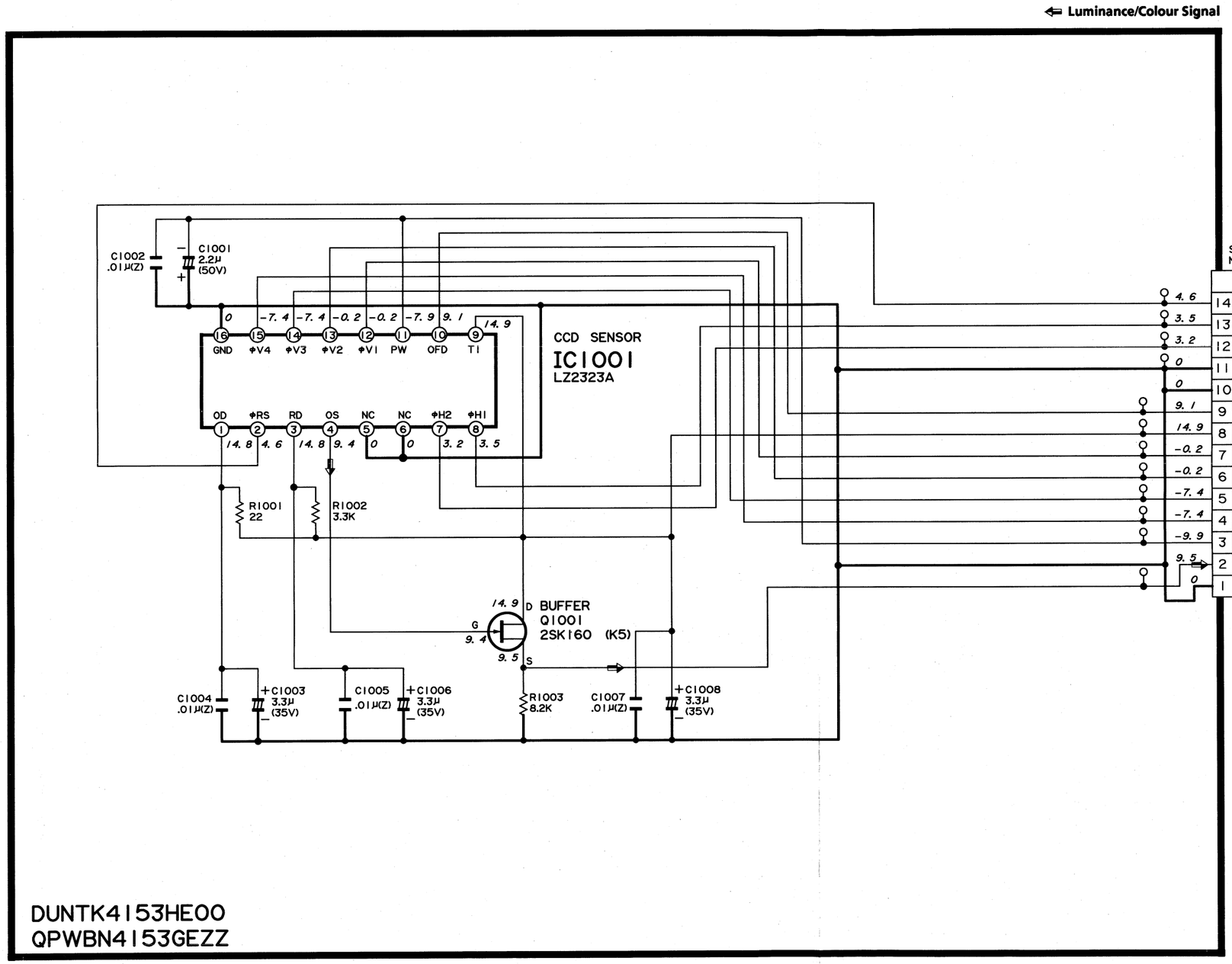


9. SCHEMATIC DIAGRAMS AND CIRCUIT BOARDS

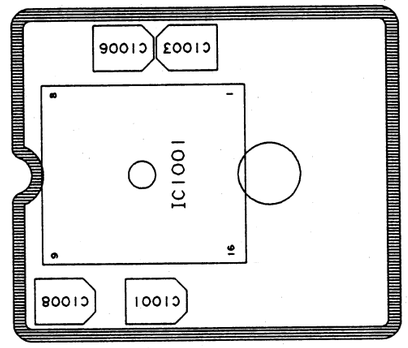
9-1. OVERALL SCHEMATIC DIAGRAM

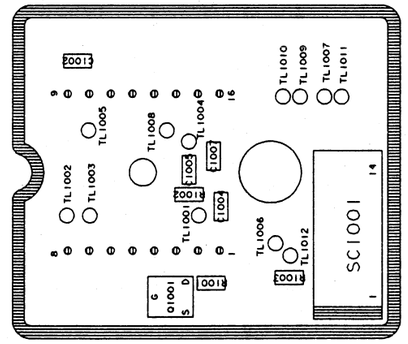


9-2. CCD CIRCUIT SCHEMATIC DIAGRAM

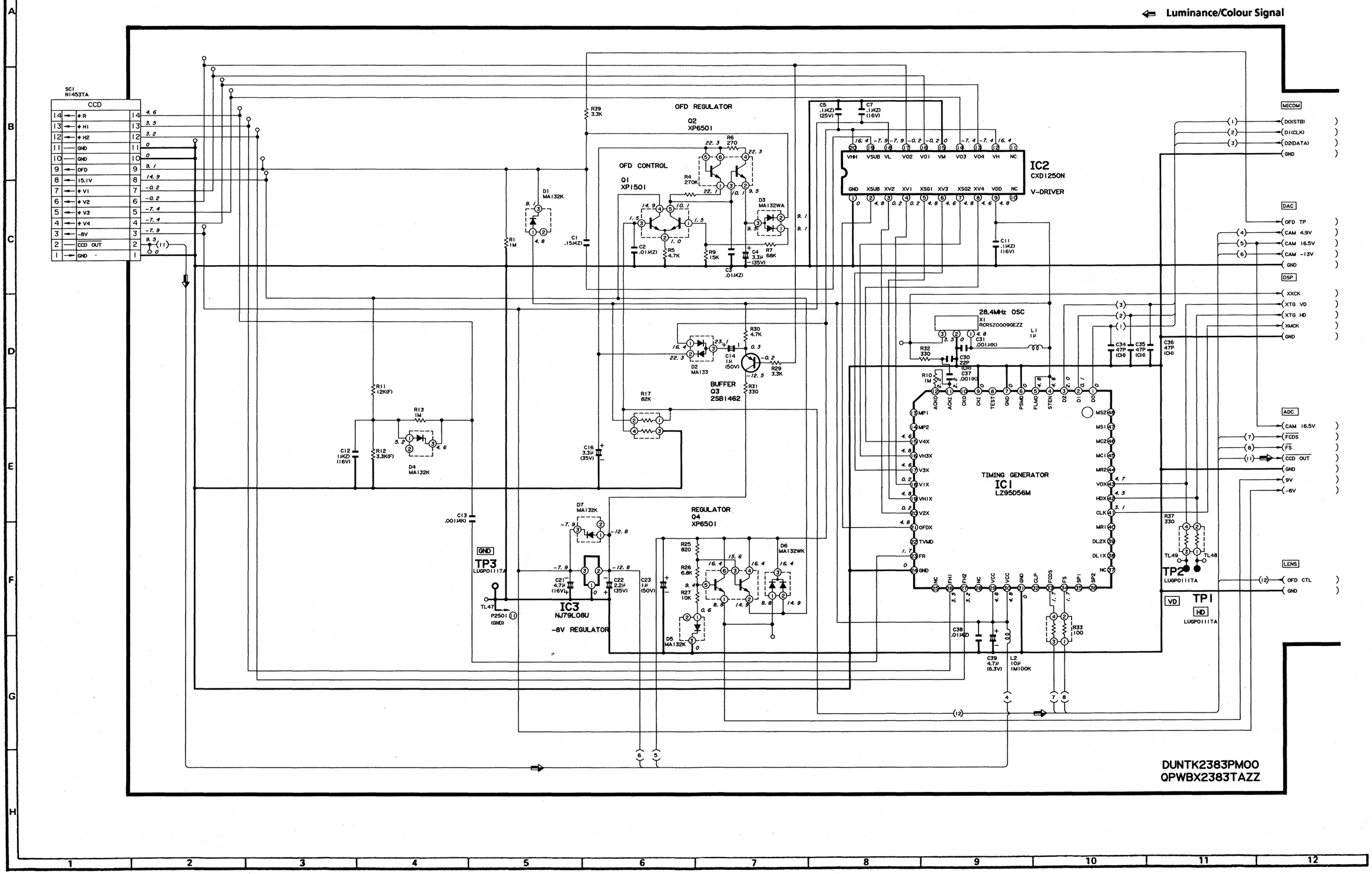


9-3. CCD P.W.B.

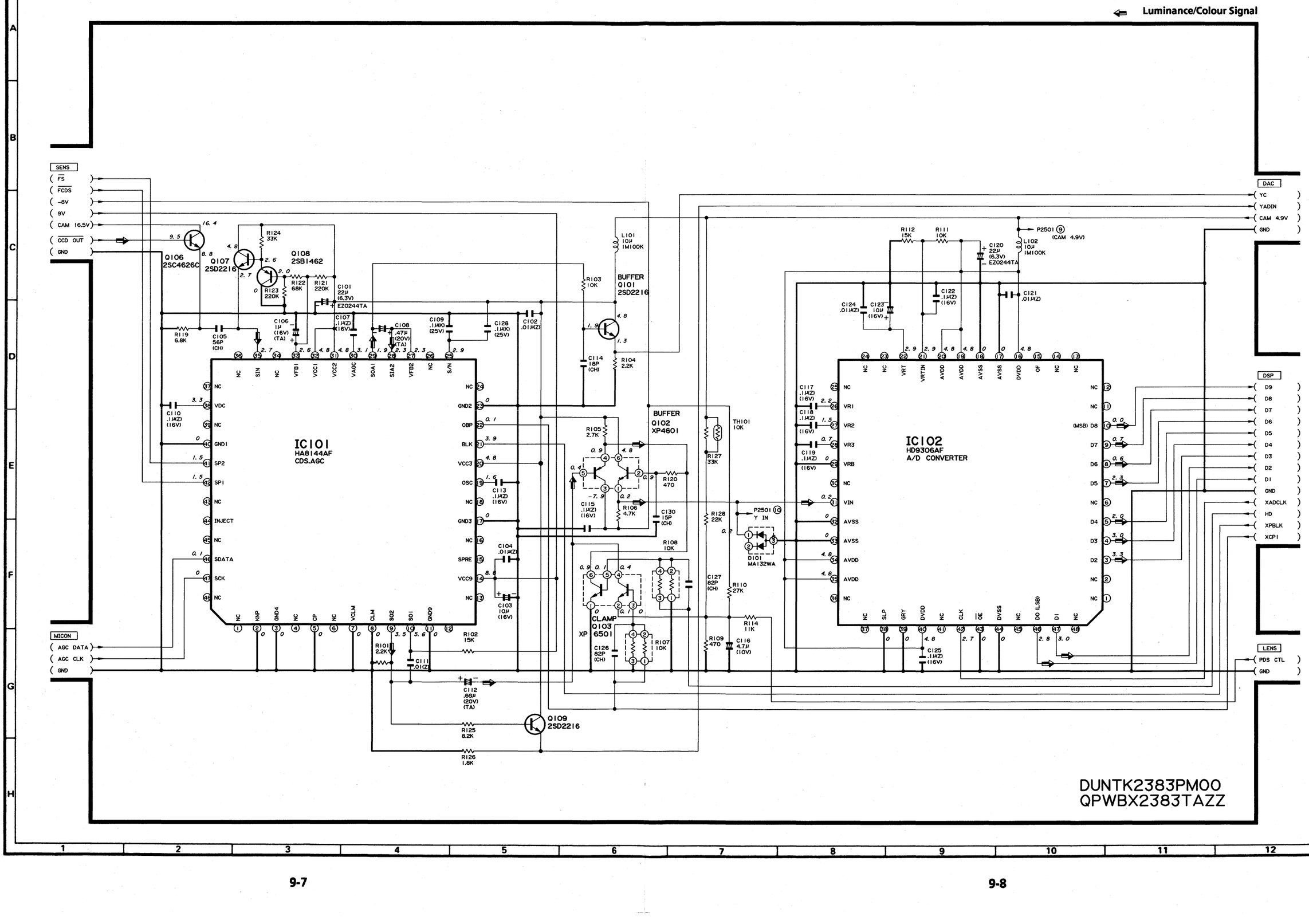




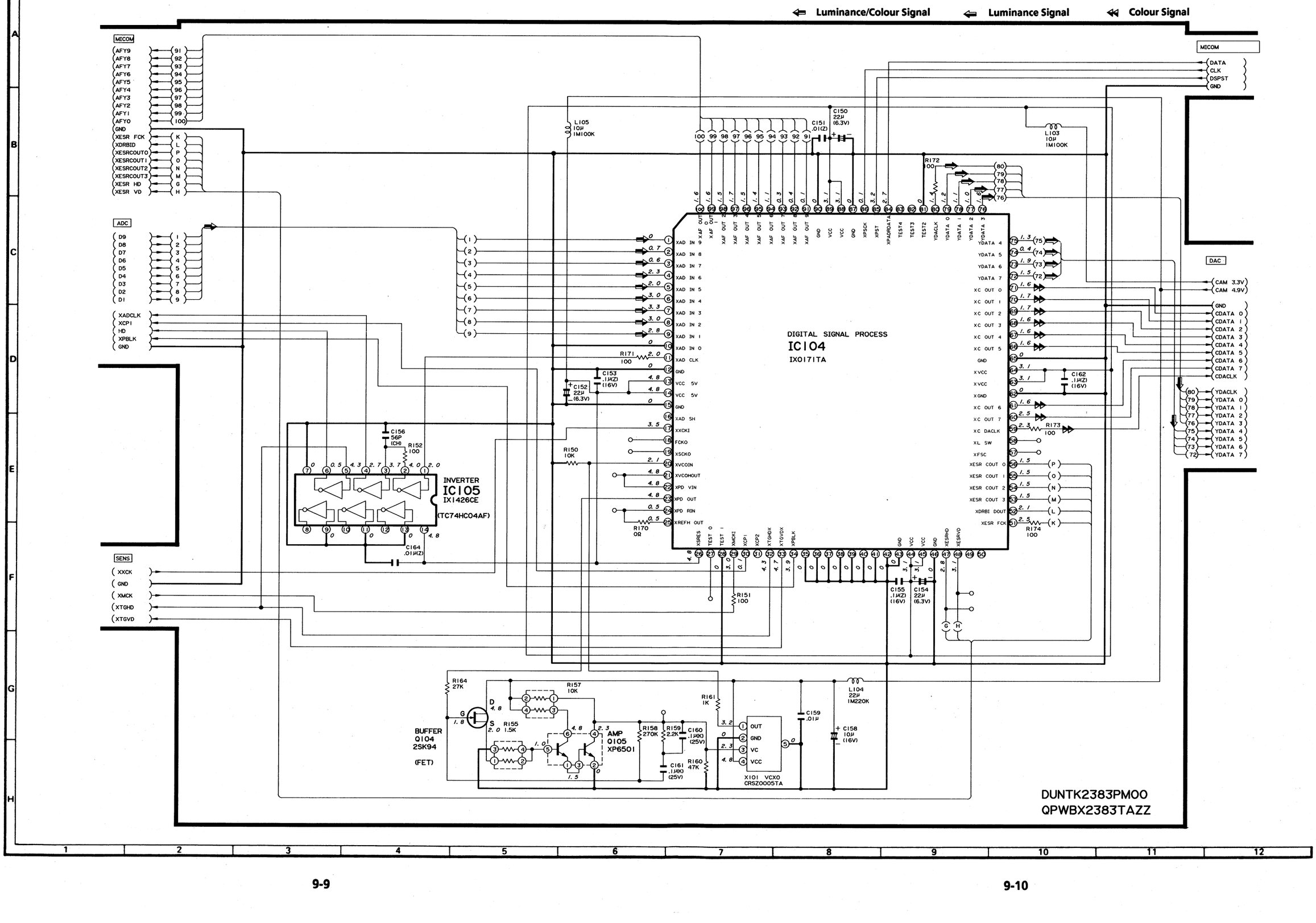
9-4. SENSOR CIRCUIT SCHEMATIC DIAGRAM



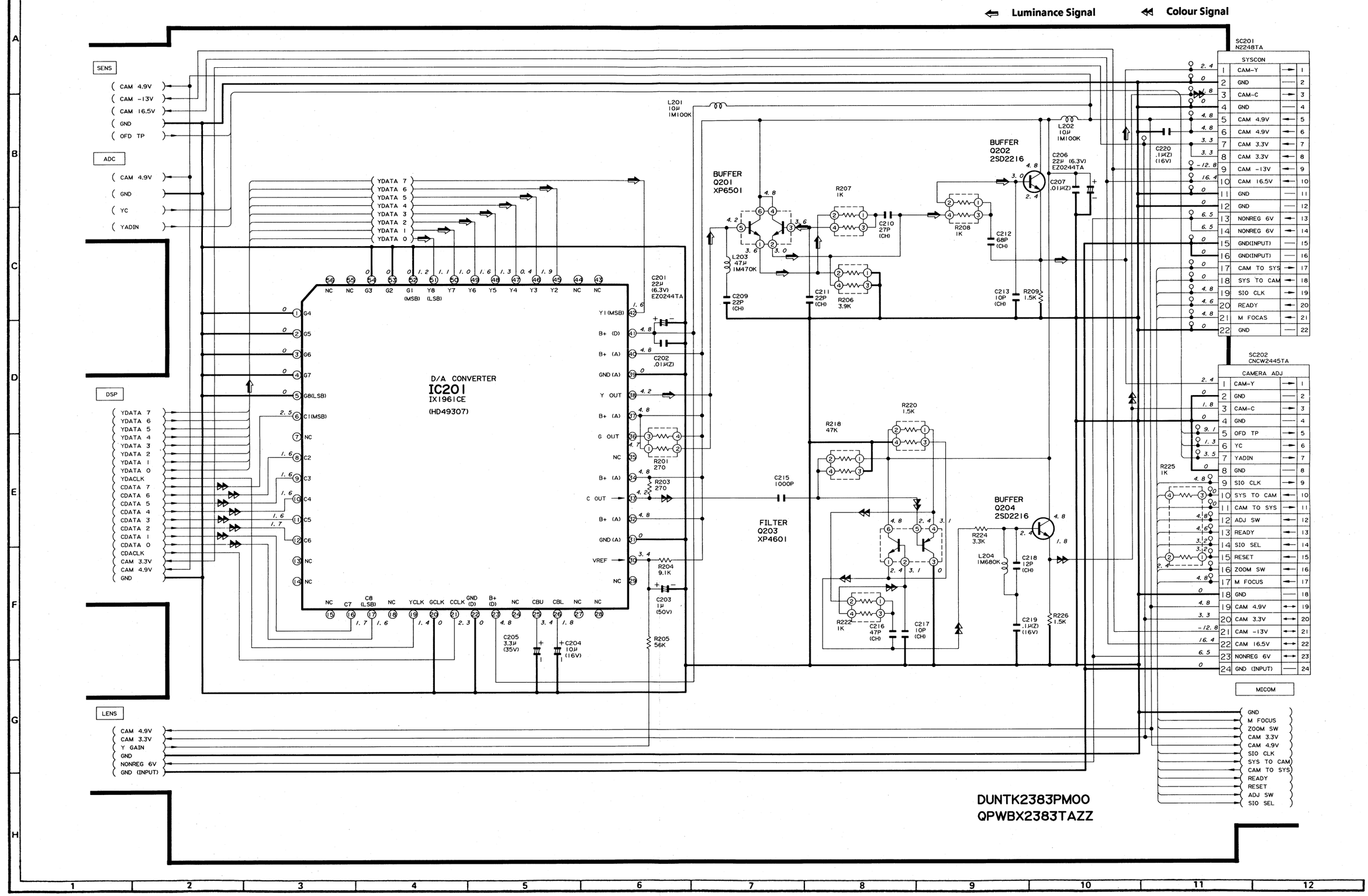
9-5. ADC CIRCUIT SCHEMATIC DIAGRAM



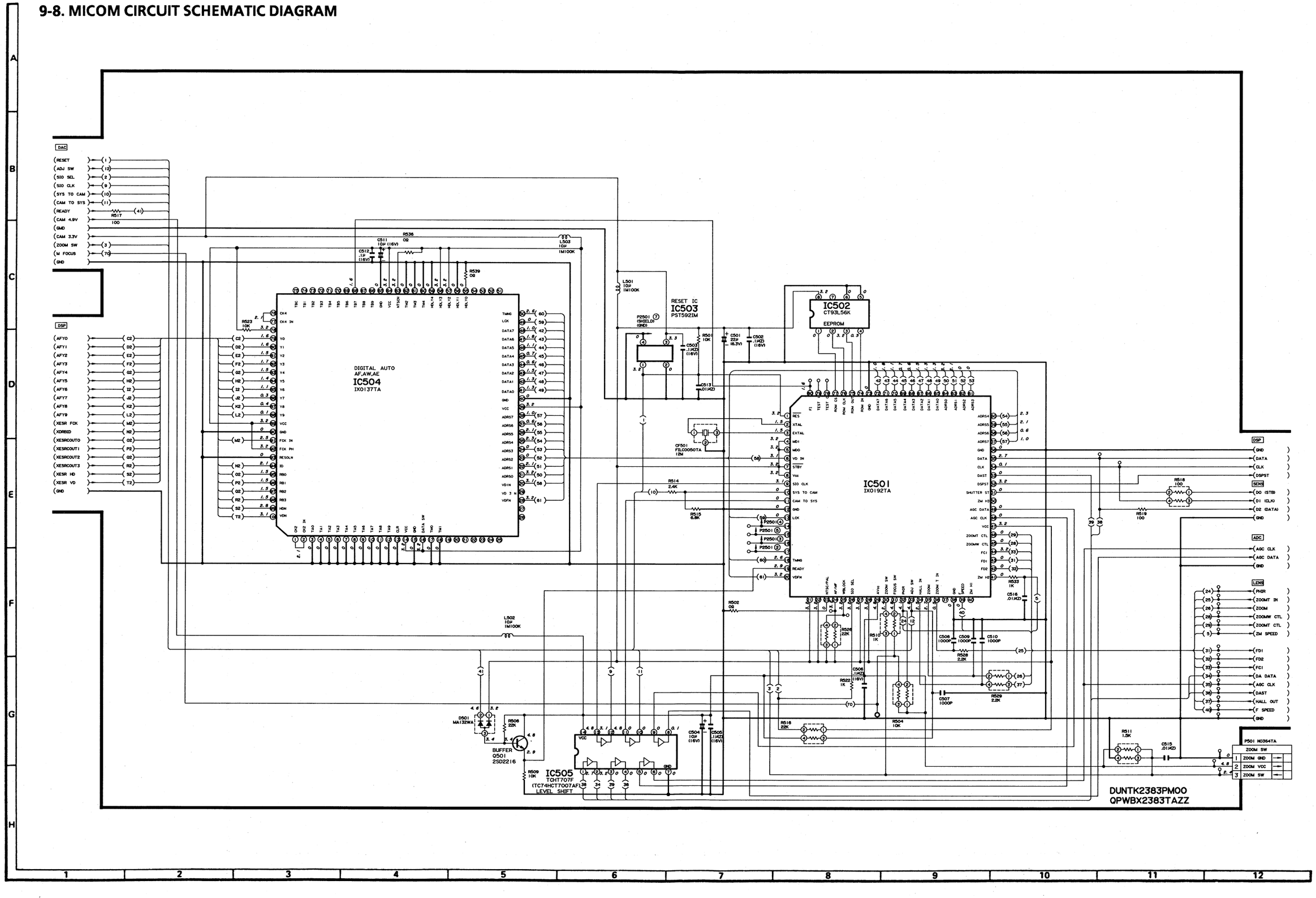
9-6. DSP CIRCUIT SCHEMATIC DIAGRAM


Luminance/Colour Signal
Luminance Signal
Colour Signal
MICOM
AFY9 AFY8 AFY7 AFY6 AFY5 AFY4 AFY3 AFY2 AFY1 AFY0 GND
XESR FCK XDRBID XESRCOUT0 XESRCOUT1 XESRCOUT2 XESRCOUT3 XESR HD XESR VD
ADC
D9 D8 D7 D6 D5 D4 D3 D2 D1
XADCLK XCPI HD XPBLK GND
SENS
XXCK GND XMCK XTGHD XTGVD
L105 10µ 1M100K
L103 10µ 1M100K
C150 22µ (6.3V)
C151 .01(Z)
R172 100
DIGITAL SIGNAL PROCESS
IC104
IX0171TA
XAD IN 9 XAD IN 8 XAD IN 7 XAD IN 6 XAD IN 5 XAD IN 4 XAD IN 3 XAD IN 2 XAD IN 1 XAD IN 0
XAD CLK GND VCC 5V VCC 5V GND XAD SH XXCKI FCKO XSCKO XVCOIN XVCOHOUT XPD VIN XPD OUT XPD RIN XREFH OUT
XSRES TEST 0 TEST 1 XMCKI XCPI XCP2 XTGHDX XTGVDX XPBLK
YDATA 4 YDATA 5 YDATA 6 YDATA 7
XC OUT 0 XC OUT 1 XC OUT 2 XC OUT 3 XC OUT 4 XC OUT 5 GND XVCC XVCC XGND XC OUT 6 XC OUT 7 XC DACLK XL SW XFSC
XESR COUT 0 XESR COUT 1 XESR COUT 2 XESR COUT 3 XDRBI DOUT XESR FCK
R171 100
R150 10K
R170 0Ω
R151 100
R152 100
R173 100
R174 100
C152 22µ (6.3V)
C153 .1µ(Z) (16V)
C154 22µ (6.3V)
C155 .1µ(Z) (16V)
C156 56P (CH)
C162 .1µ(Z) (16V)
C164 .01µ(Z)
INVERTER
IC105
IX1426CE
(TC74HC04AF)
DAC
CAM 3.3V
CAM 4.9V
GND
CDATA 0 CDATA 1 CDATA 2 CDATA 3 CDATA 4 CDATA 5 CDATA 6 CDATA 7 CDACLK
YDACLK YDATA 0 YDATA 1 YDATA 2 YDATA 3 YDATA 4 YDATA 5 YDATA 6 YDATA 7
BUFFER
Q104
2SK94
(FET)
R164 27K
R157 10K
R155 1.5K
AMP
Q105
XP6501
R158 270K
R159 2.2K
C160 .1µK0 (25V)
C161 .1µK0 (25V)
R160 47K
R161 1K
C159 .01µ
C158 10µ (16V)
L104 22µ 1M220K
X101 VCXO
CRSZ0005TA
DUNTK2383PM00
QPWBX2383TAZZ

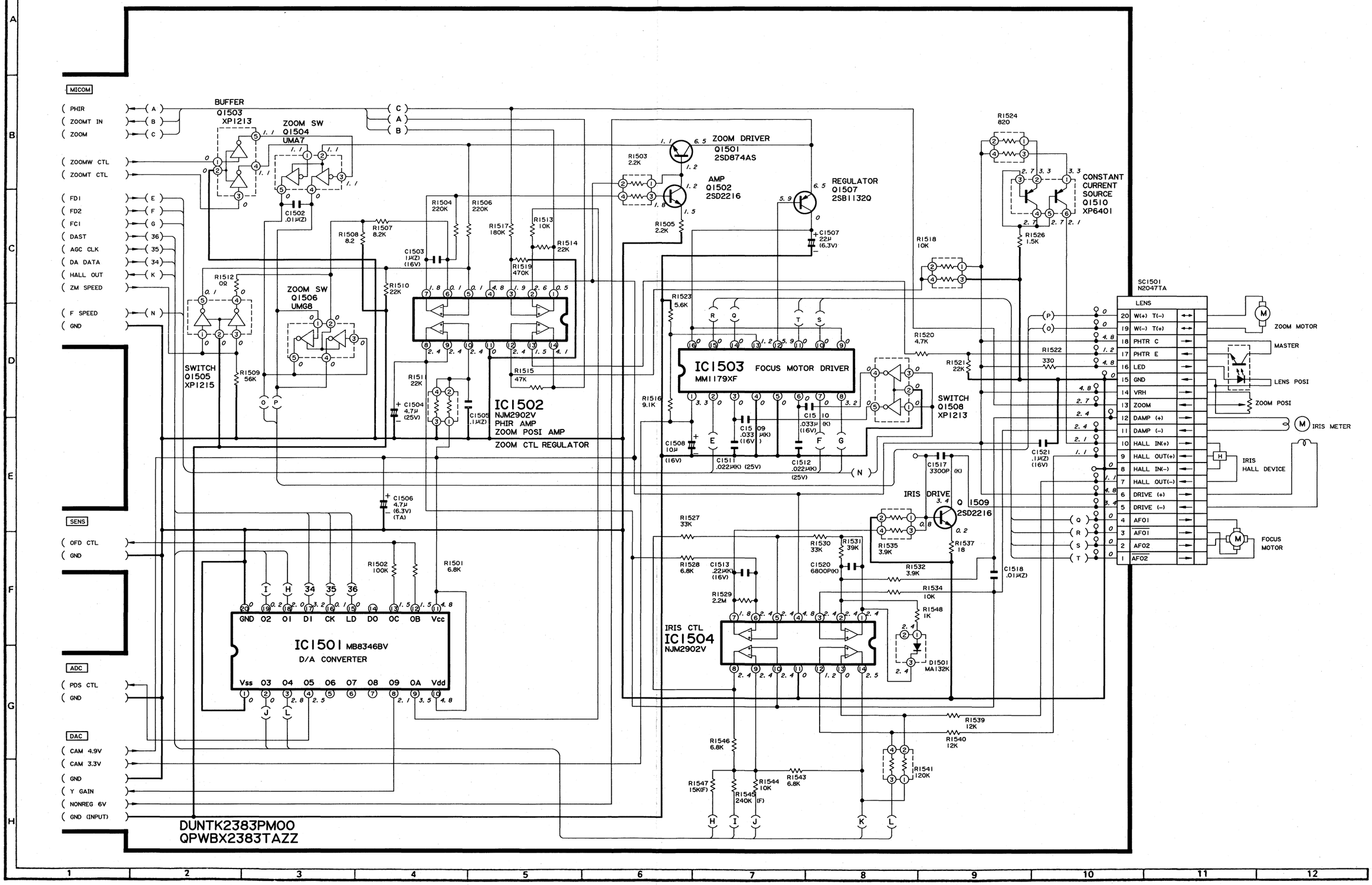
9-7. DAC CIRCUIT SCHEMATIC DIAGRAM



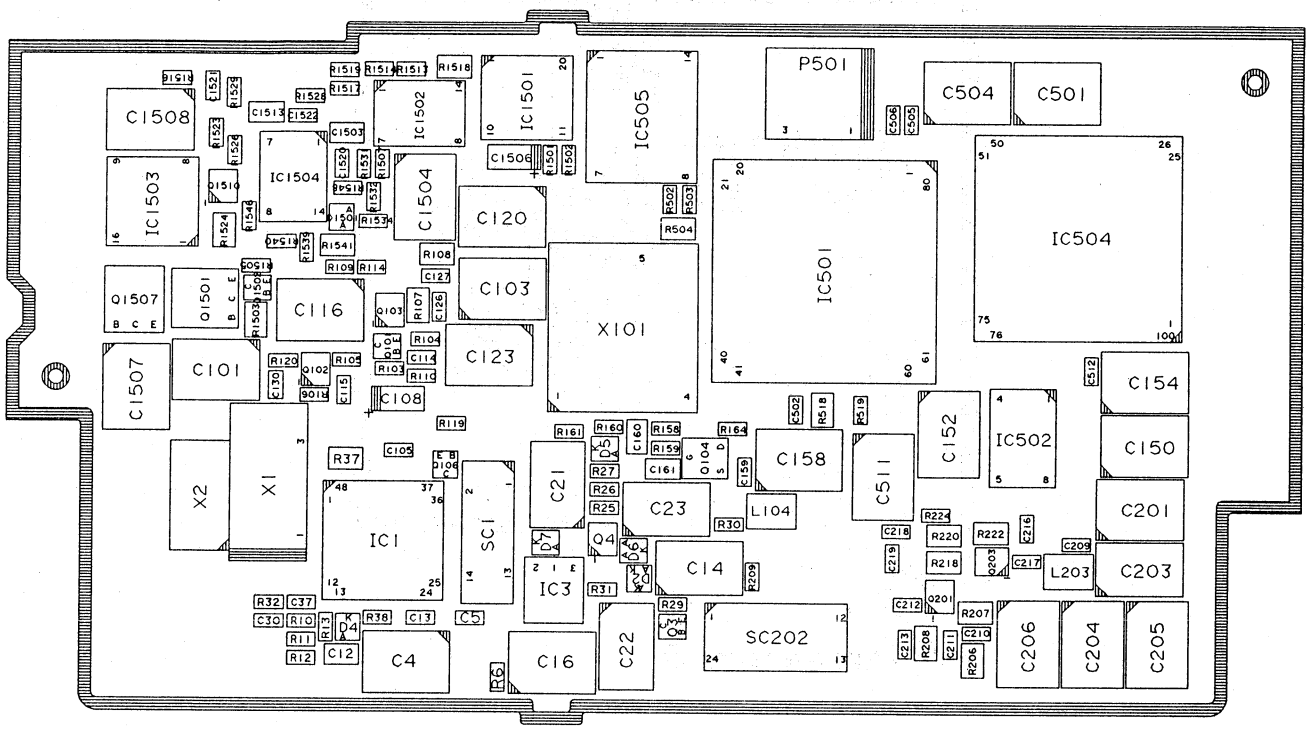
9-8. MICOM CIRCUIT SCHEMATIC DIAGRAM



9-9. LENS DRIVE CIRCUIT SCHEMATIC DIAGRAM



9-10. CAMERA P.W.B.


P501
C504
C501
IC1508
IC1502
IC1501
IC505
IC1503
IC1504
C1504
C120
IC504
IC501
C1506
R1502
R1503
R502
R503
R504
C1503
C1513
C1522
R1516
R1517
R1518
R1519
R1520
R1521
R1523
R1524
R1526
R1528
R1529
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R1540
R1541
R1542
R1543
R1544
R1545
R1546
R1547
R1548
C1501
C1502
C1505
C1506
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C1509
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C1511
C1512
C1514
C1515
C1516
C1517
C1518
C1519
C1520
C1521
Q1501
Q1502
Q1503
Q1504
Q1505
Q1506
Q1507
C101
C103
C108
C116
C123
X101
C107
C109
C110
C111
C112
C113
C114
C115
C117
C118
C119
C120
C121
C122
C123
C124
C125
C126
C127
C128
C129
C130
R101
R102
R103
R104
R105
R106
R107
R108
R109
R110
R111
R112
R113
R114
R115
R116
R117
R118
R119
R120
C501
C502
C503
C504
C505
C506
C507
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C511
C512
R501
R502
R503
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R514
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R519
C150
C152
C154
C158
C159
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C201
C203
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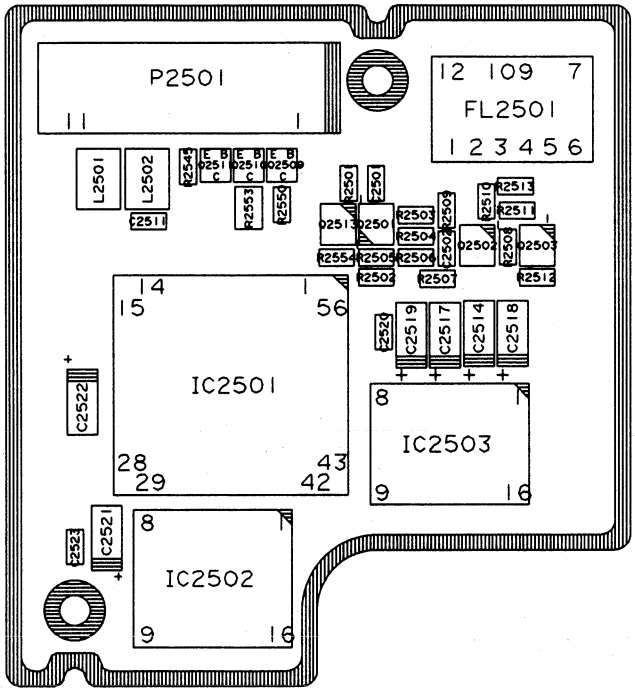
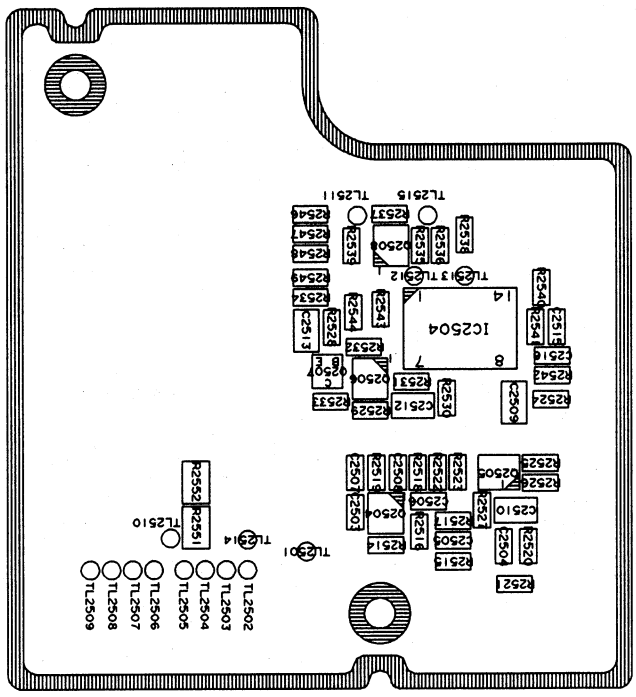
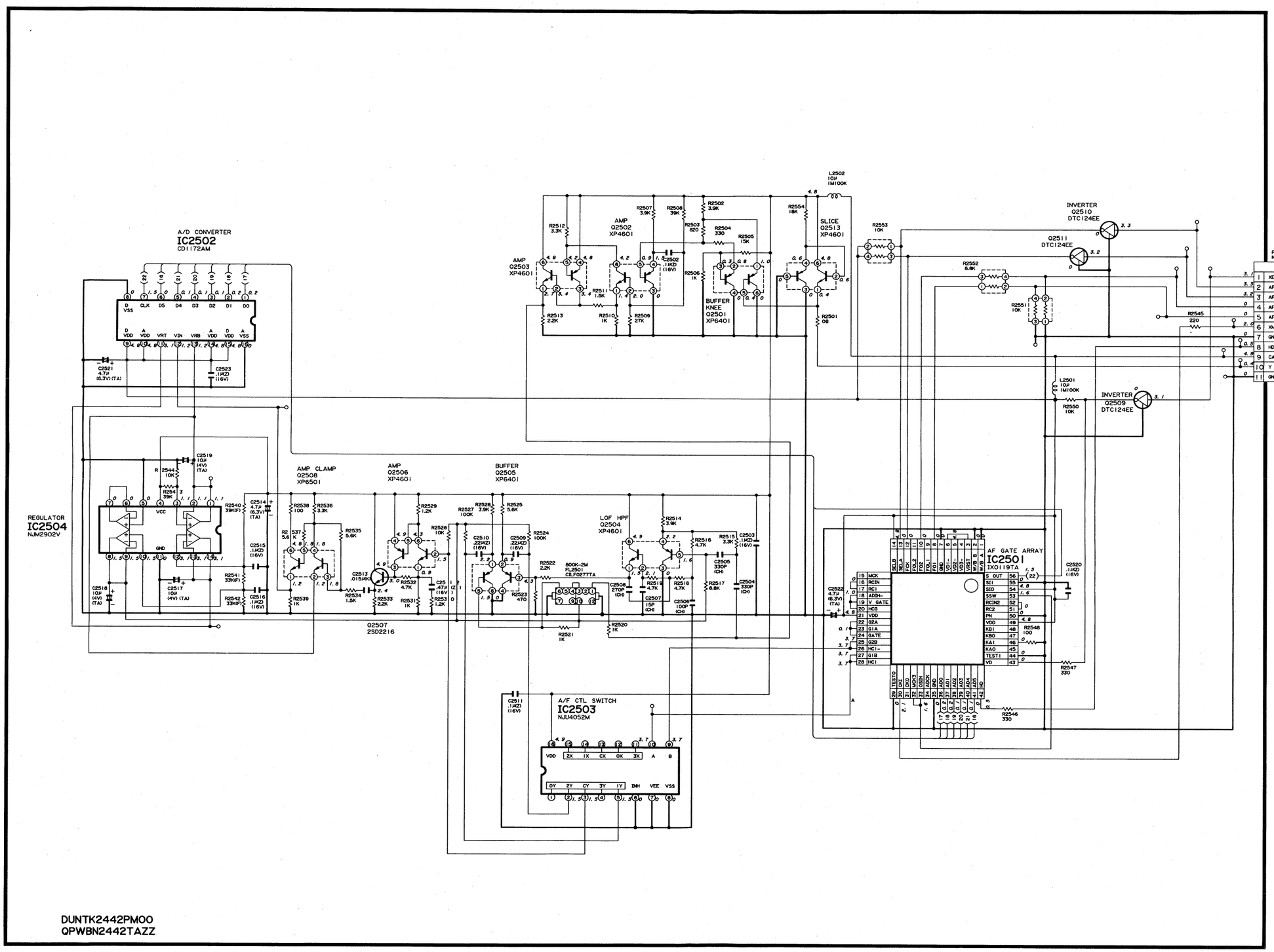
C238
C239
C240
C241
C242

9-11. AUTO FOCUS P.W.B.

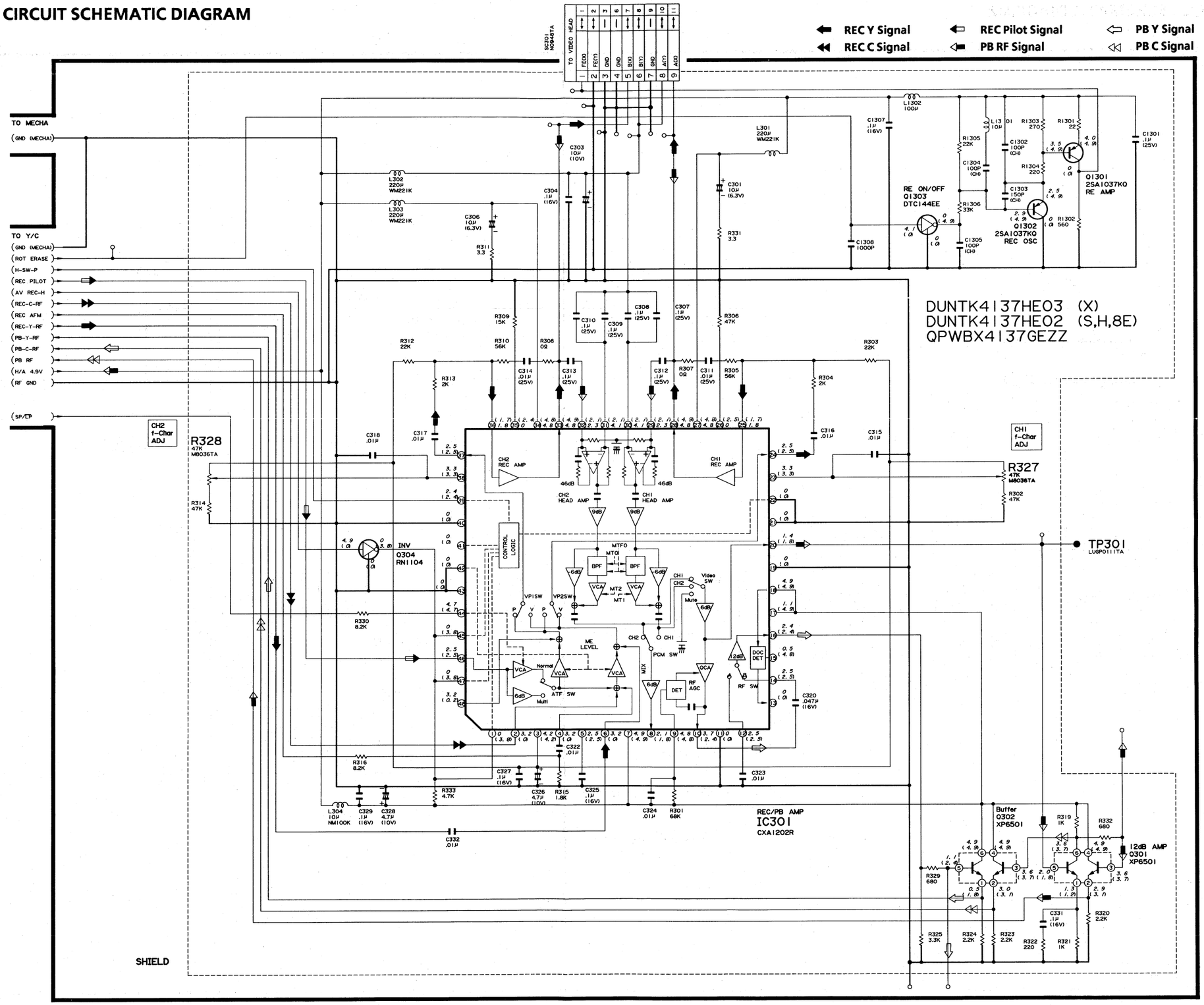




9-12. AUTO FOCUS SCHEMATIC DIAGRAM



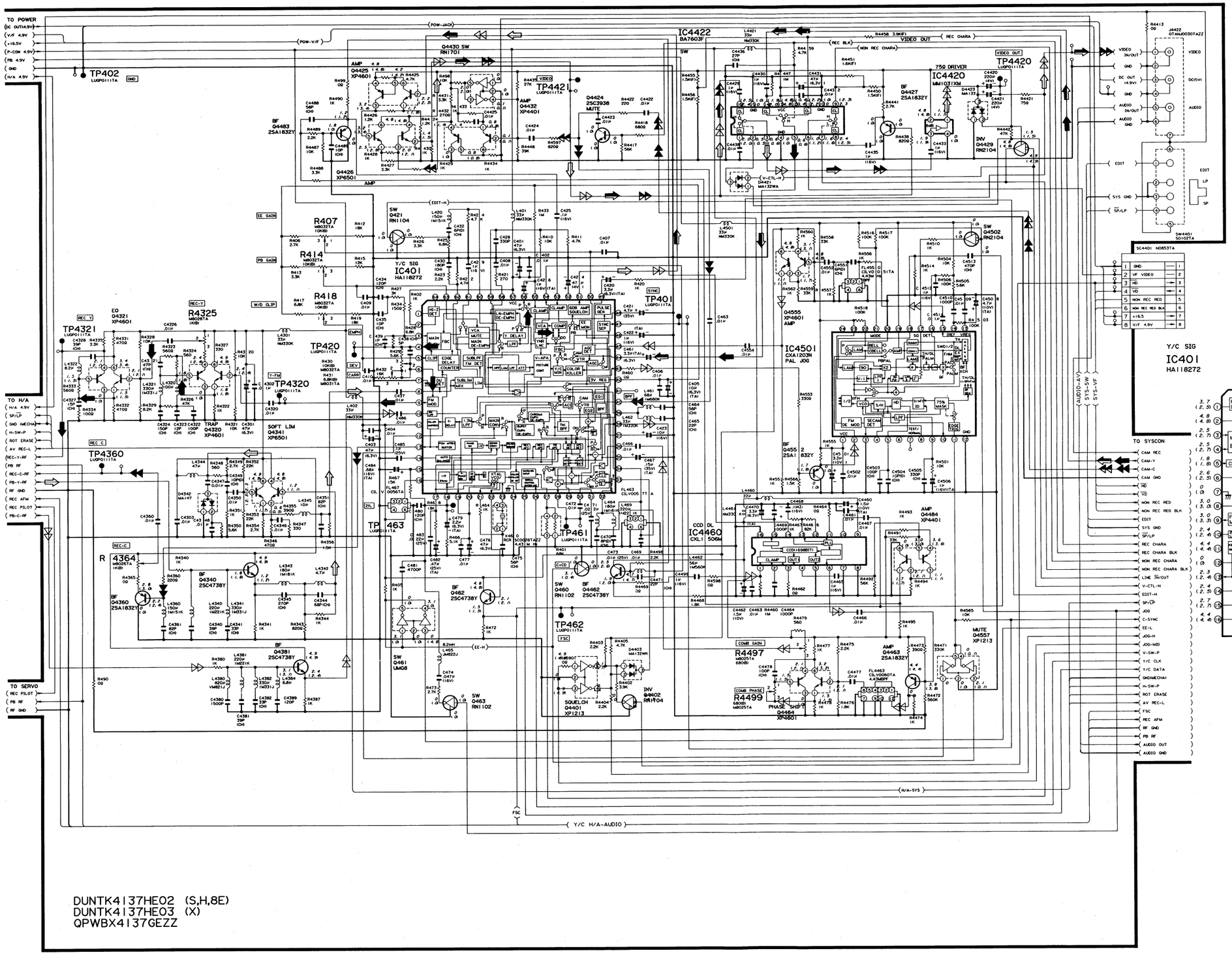
9-13. HEAD AMP CIRCUIT SCHEMATIC DIAGRAM



* VOLTAGE MEASUREMENT MODE
PB ..... Parentheses ( )
REC ..... Without Parentheses

9-14. Y/C CIRCUIT SCHEMATIC DIAGRAM

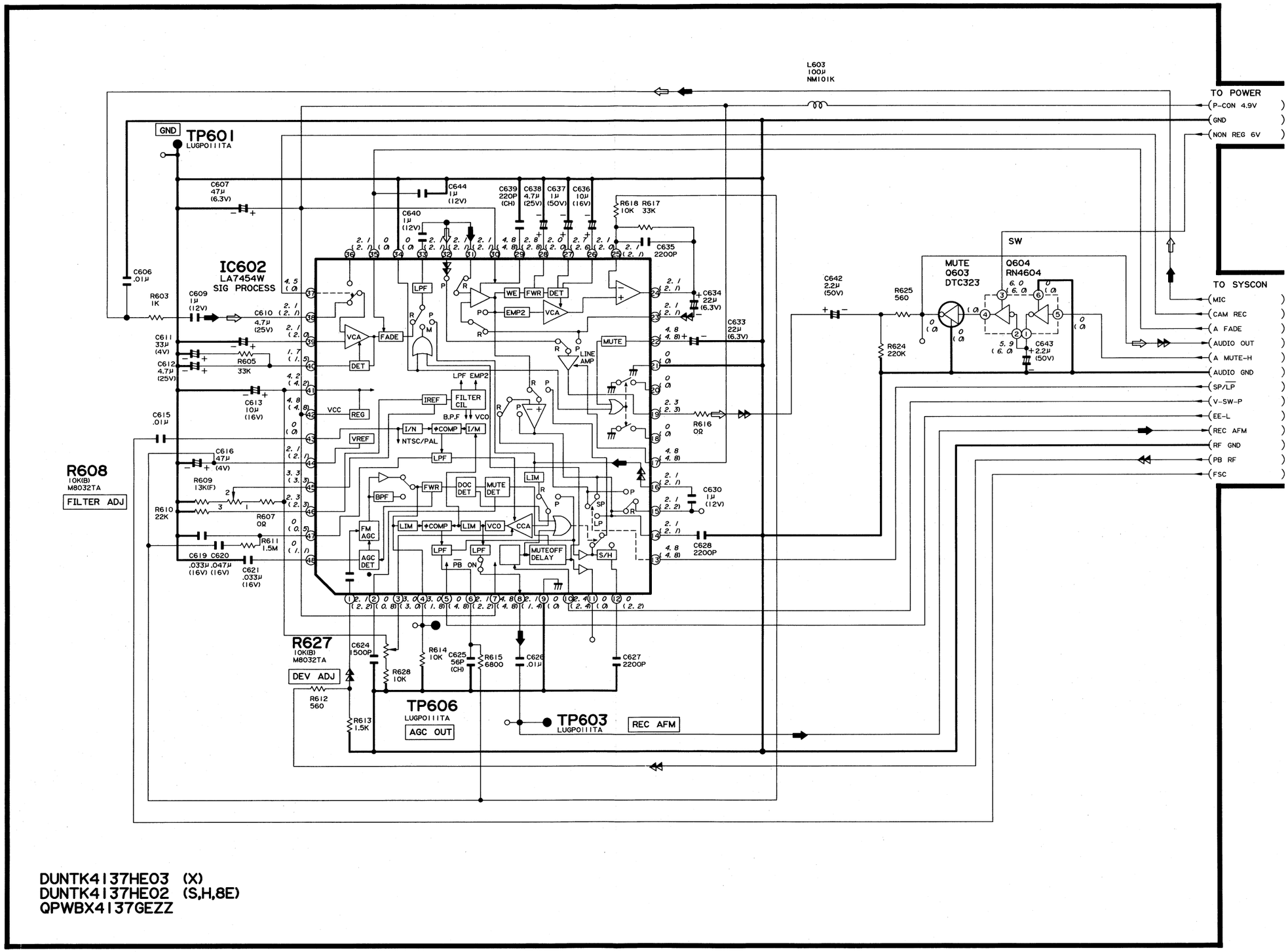
CAM Y EE Signal
CAM C EE Signal
CAM Y REC Signal
CAM C REC Signal
PB Y Signal
PB C Signal



* VOLTAGE MEASUREMENT MODE
PB ..... Parentheses ( )
REC ..... Without Parentheses

9-15. AUDIO CIRCUIT SCHEMATIC DIAGRAM

⇦ Mic EE Signal ⬅ Mic REC Signal ⏪ PB Signal

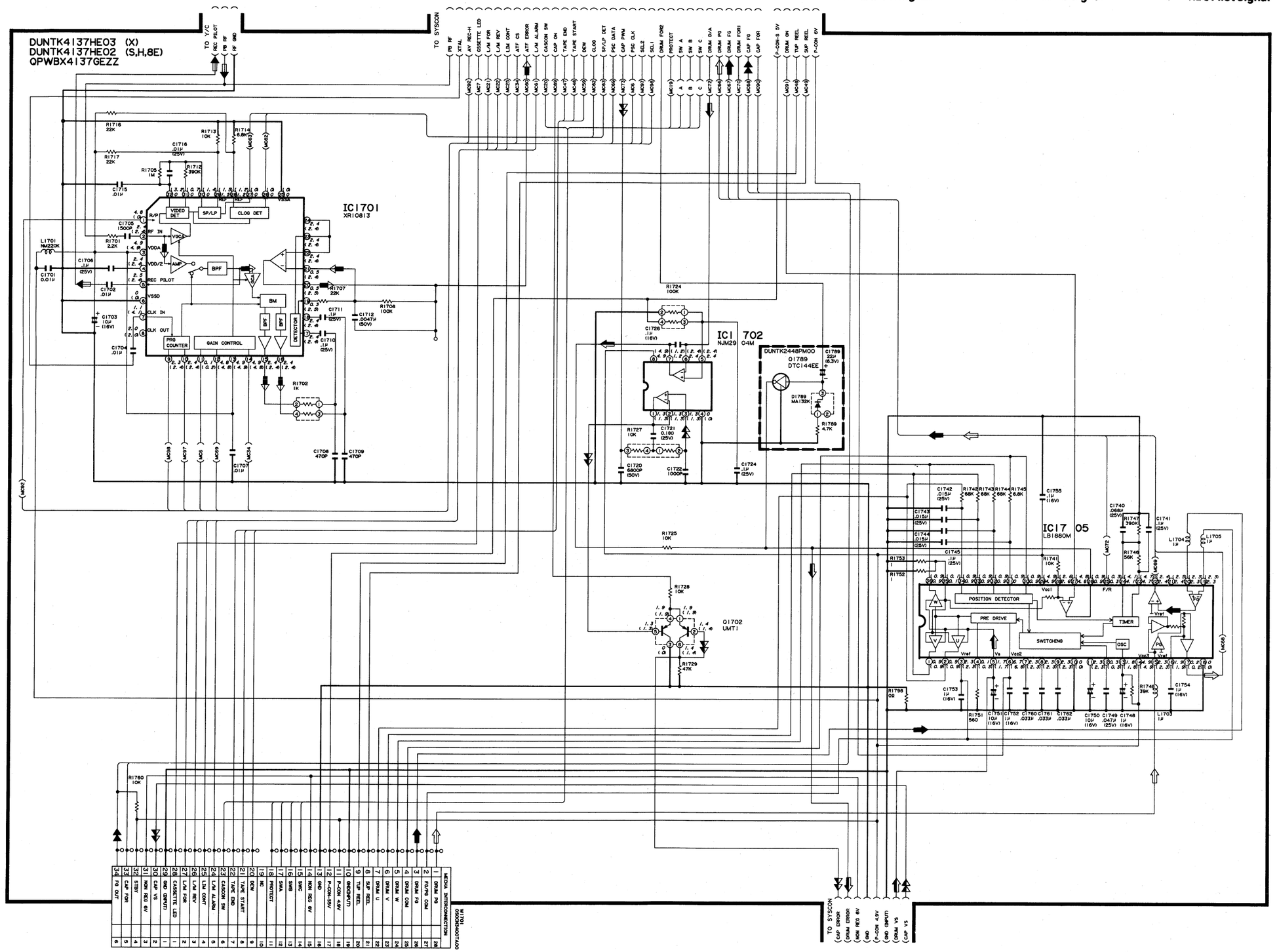


DUNTK4137HE03 (X)
DUNTK4137HE02 (S,H,8E)
QPWBX4137GEZZ

* VOLTAGE MEASUREMENT MODE
PB ..... Parentheses ( )
REC ..... Without Parentheses

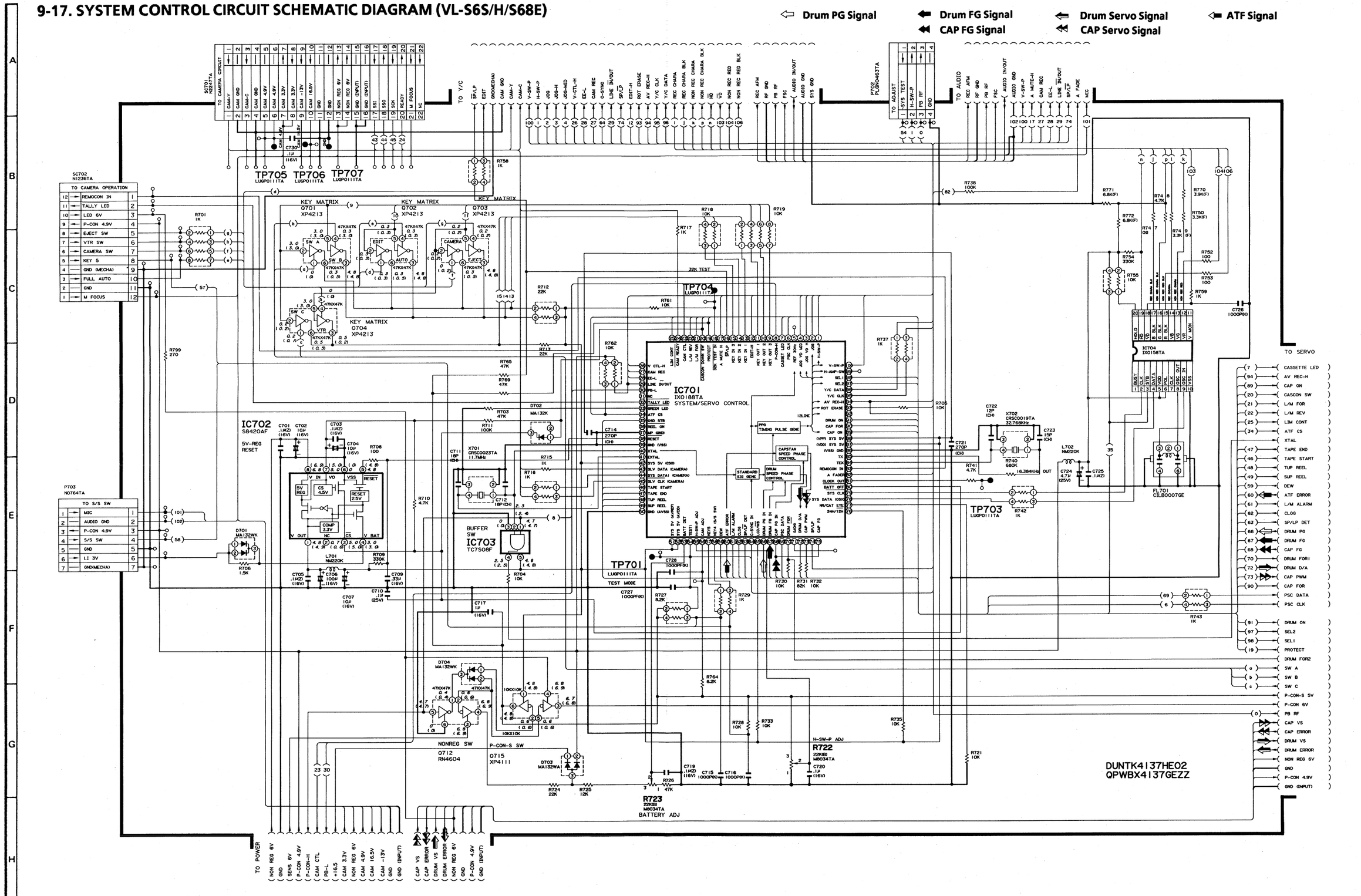
9-16. SERVO CIRCUIT SCHEMATIC DIAGRAM

Drum PG Signal
Drum FG Signal
CAP FG Signal
Drum Servo Signal
CAP Servo Signal
ATF Signal
REC Pilot Signal



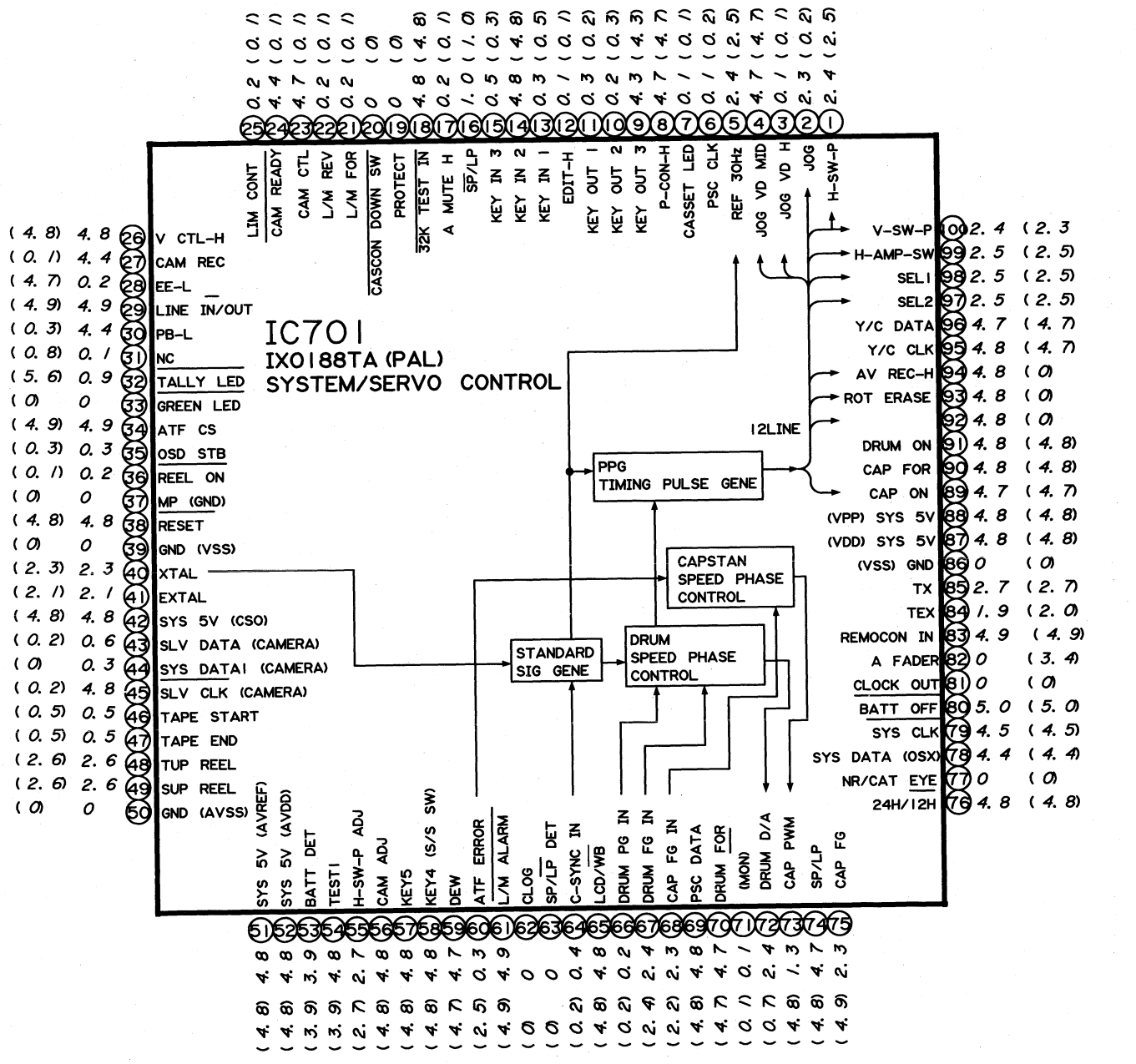
* VOLTAGE MEASUREMENT MODE
PB ..... Parentheses ( )
REC ..... Without Parentheses

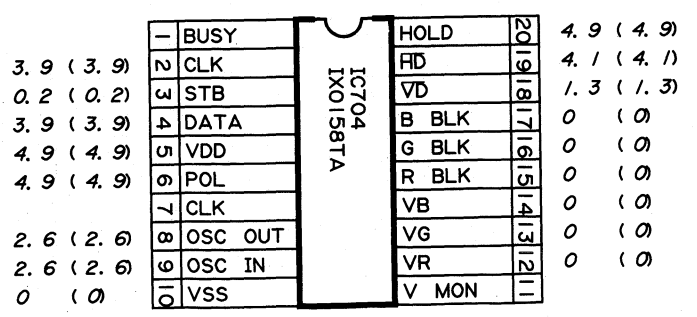
9-17. SYSTEM CONTROL CIRCUIT SCHEMATIC DIAGRAM (VL-S6S/H/S68E)



* VOLTAGE MEASUREMENT MODE
PB ..... Parentheses ( )
REC ..... Without Parentheses

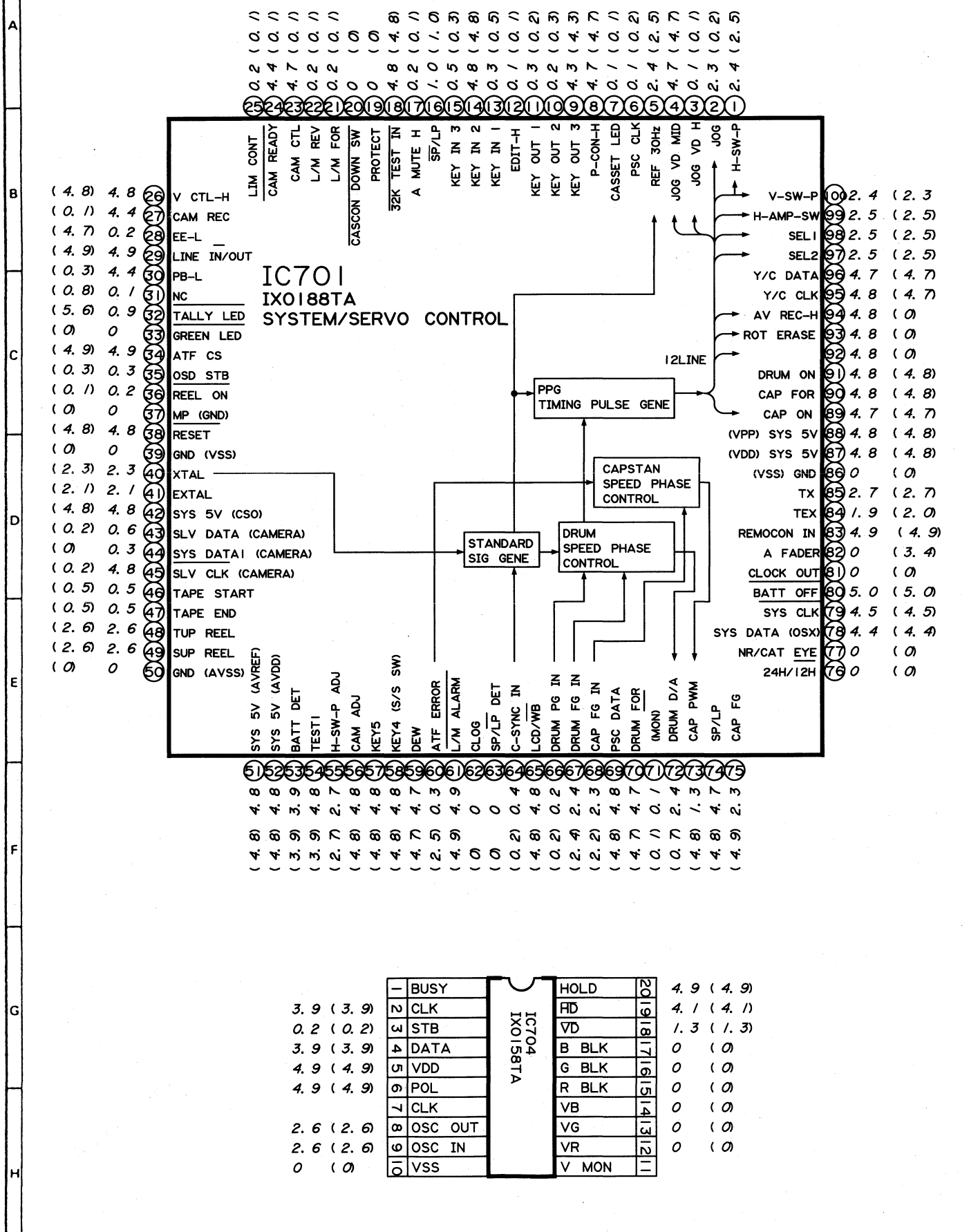
9-18. VOLTAGE CHART OF ICs ON SYSTEM CONTROL CIRCUIT (VL-S6S/H/S68E)





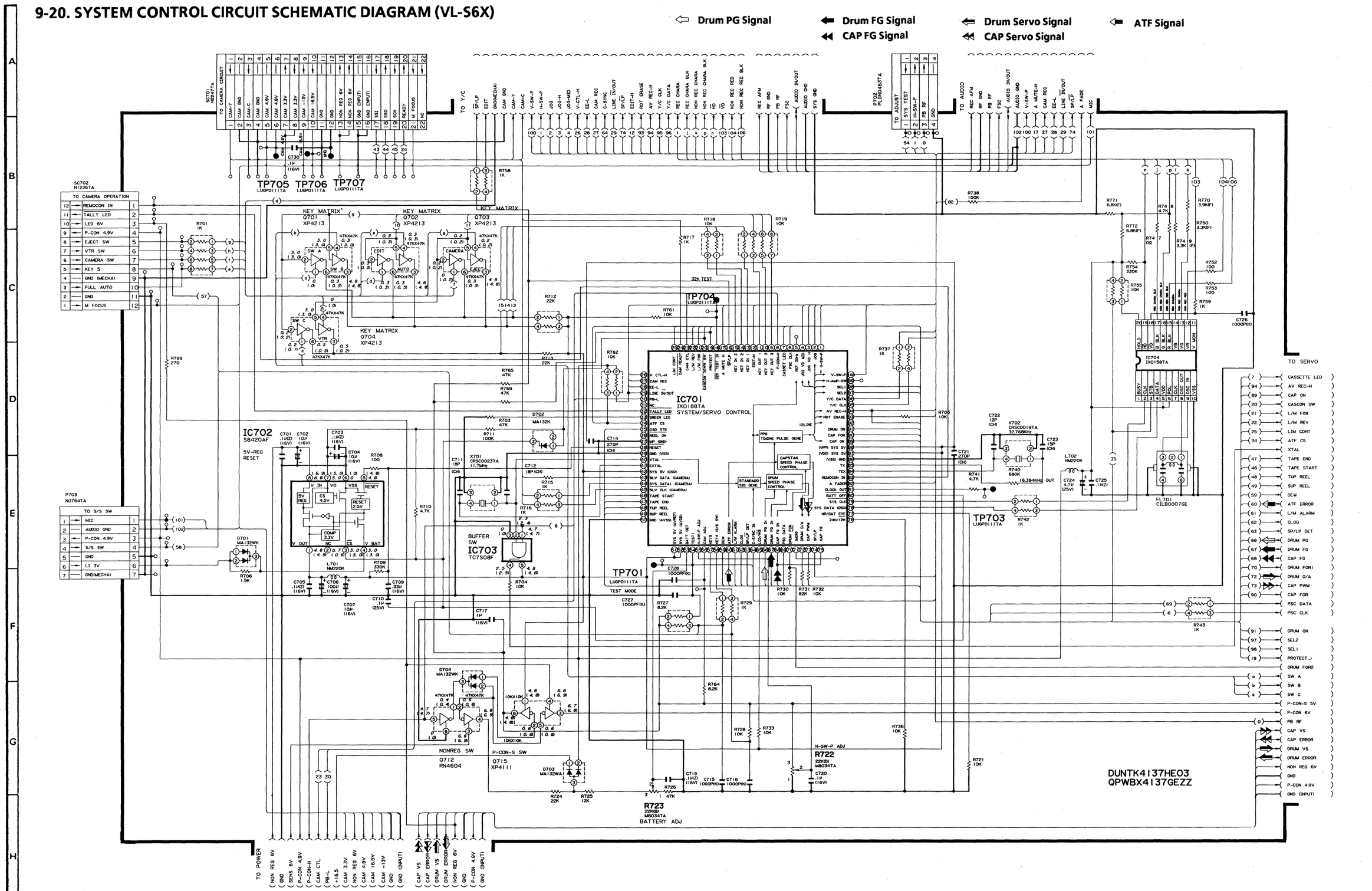
* VOLTAGE MEASUREMENT MODE
PB ..... Parentheses ( )
REC ..... Without Parentheses

9-19. VOLTAGE CHART OF ICs ON SYSTEM CONTROL CIRCUIT (VL-S6X)



* VOLTAGE MEASUREMENT MODE
PB ..... Parentheses ( )
REC ..... Without Parentheses

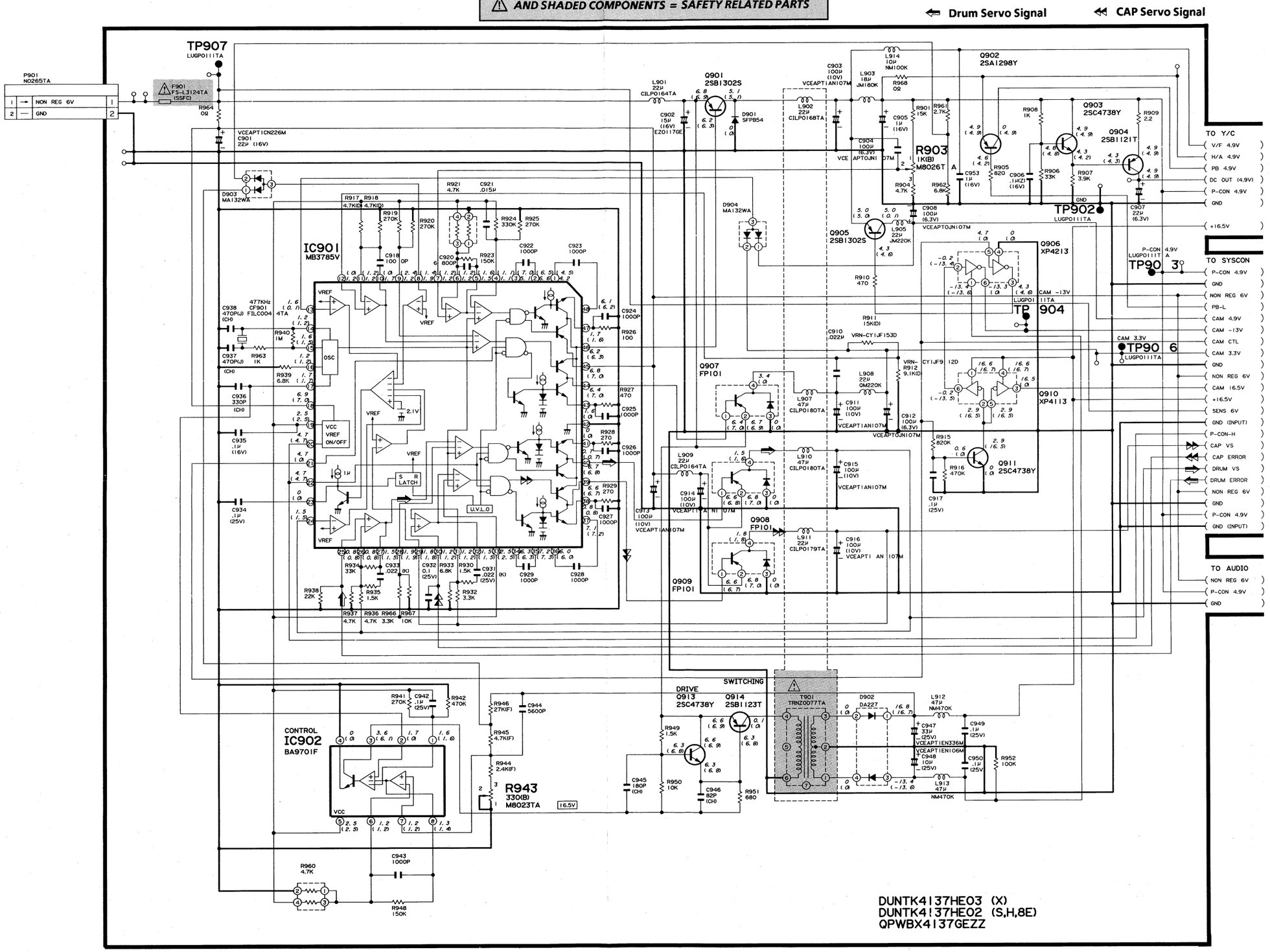
9-20. SYSTEM CONTROL CIRCUIT SCHEMATIC DIAGRAM (VL-S6X)



* VOLTAGE MEASUREMENT MODE
PB ..... Parentheses ( )
REC ..... Without Parentheses

9-21. DC/DC CONVERTER CIRCUIT SCHEMATIC DIAGRAM

⚠ AND SHADED COMPONENTS = SAFETY RELATED PARTS

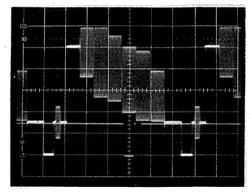


1 2 3 4 5 6 7 8 9 10 11 12

* VOLTAGE MEASUREMENT MODE
PB ..... Parentheses ( )
REC ..... Without Parentheses

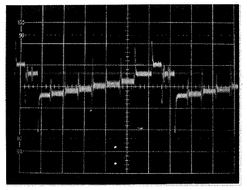
9-22. VCR P.W.B.

• Y/C CIRCUIT



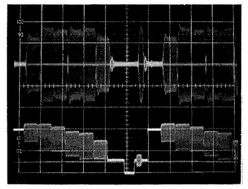
VIDEO INPUT at A/V terminal
200mV, 10µsec/div

(Colour bar input, VCR ADJ (STOP) mode)



TP420
EMPHASIS OUTPUT
200mV, 10µsec/div

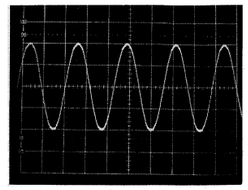
(Colour bar input, VCR ADJ (STOP) mode)



TP4360 (Upper)
REC C SIGNAL
50mV, 10µsec/div

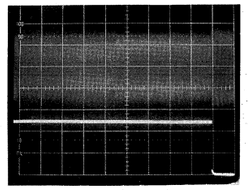
TP4421 (Lower)
VIDEO EE SIGNAL
500mV, 10µsec/div

(Colour bar input, VCR ADJ (STOP) mode)



TP462
f_{SC}
100mV, 0.1µsec/div

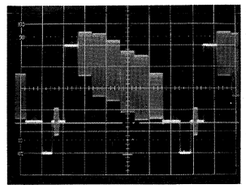
(Colour bar input, VCR ADJ (STOP) mode)



P702 connector pin (3) (Upper)
PB RF SIGNAL
200mV, 2msec/div

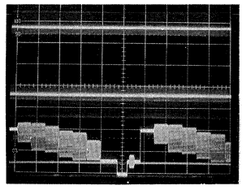
P702 connector pin (2) (Lower)
H-SW-P
2V, 2msec/div

(VCR colour bar PB mode)



TP4421
VIDEO EE SIGNAL
200mV, 10µsec/div

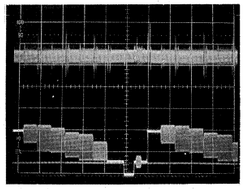
(Colour bar input, VCR ADJ (STOP) mode)



TP4320 (Upper)
REC Y SIGNAL
200mV, 10µsec/div

TP4421 (Lower)
VIDEO EE SIGNAL
500mV, 10µsec/div

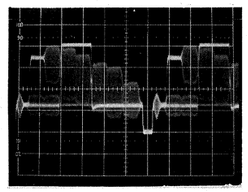
(Colour bar input, VCR ADJ (STOP) mode)



TP461 (Upper)
RESIDUAL CHROMA SIGNAL
50mV, 10µsec/div

TP4421 (Lower)
VIDEO EE SIGNAL
500mV, 10µsec/div

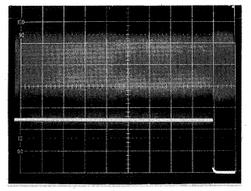
(Colour bar input, VCR ADJ (STOP) mode)



TP4420
PB VIDEO SIGNAL
500mV, 10µsec/div

(Colour bar VCR PB mode)

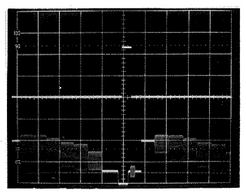
• HEAD AMP CIRCUIT



TP301 (Upper)
PB RF SIGNAL
50mV, 2msec/div

P702 connector pin (2) (Lower)
H-SW-P
2V, 2msec/div

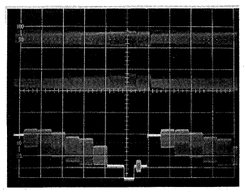
(VCR colour bar PB mode)



TP401 (Upper)
SYNC OUTPUT
2V, 10µsec/div

TP4421 (Lower)
VIDEO EE SIGNAL
500mV, 10µsec/div

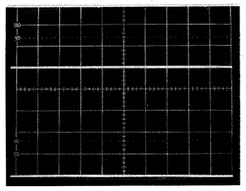
(Colour bar input, VCR ADJ (STOP) mode)



TP4321 (Upper)
REC Y SIGNAL
100mV, 10µsec/div

TP4421 (Lower)
VIDEO EE SIGNAL
500mV, 10µsec/div

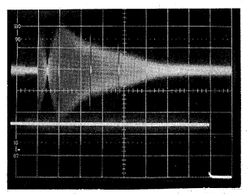
(Colour bar input, VCR ADJ (STOP) mode)



TP463 (Upper)
2f_L VCO VOLTAGE LEVEL
500mV, 10µsec/div

TP402 (Lower)
GND

(Colour bar input, VCR ADJ (STOP) mode)

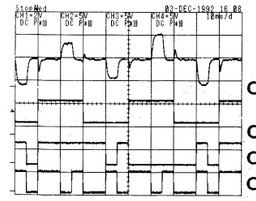


P702 connector pin (3) (Upper)
PB RF SIGNAL
200mV, 2msec/div

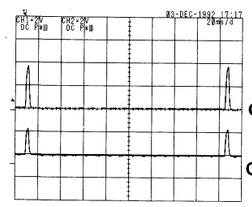
P702 connector pin (2) (Lower)
H-SW-P
2V, 2msec/div

(VCR PB mode, playback alignment tape)

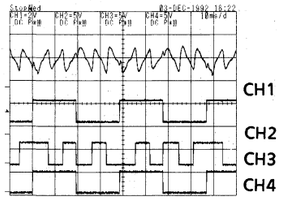
• SYSTEM CONTROL/SERVO CIRCUIT



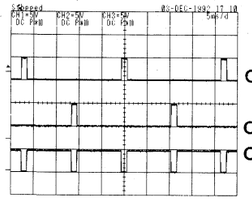
TL1783 (CH1)
ATF ERROR
2V, 10msec/div
TL7782 (CH2)
H-SW-P
5V, 10msec/div
IC701 PIN (97) (CH3)
SEL2
5V, 10msec/div
IC701 pin (98) (CH4)
SEL1
5V, 10msec/div
(VCR PB mode)



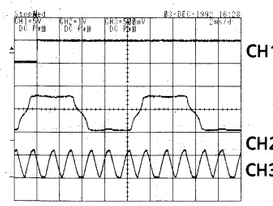
TL1770 (CH1)
TAPE START
2V, 20msec/div
TL1771 (CH2)
TAPE END
2V, 20msec/div



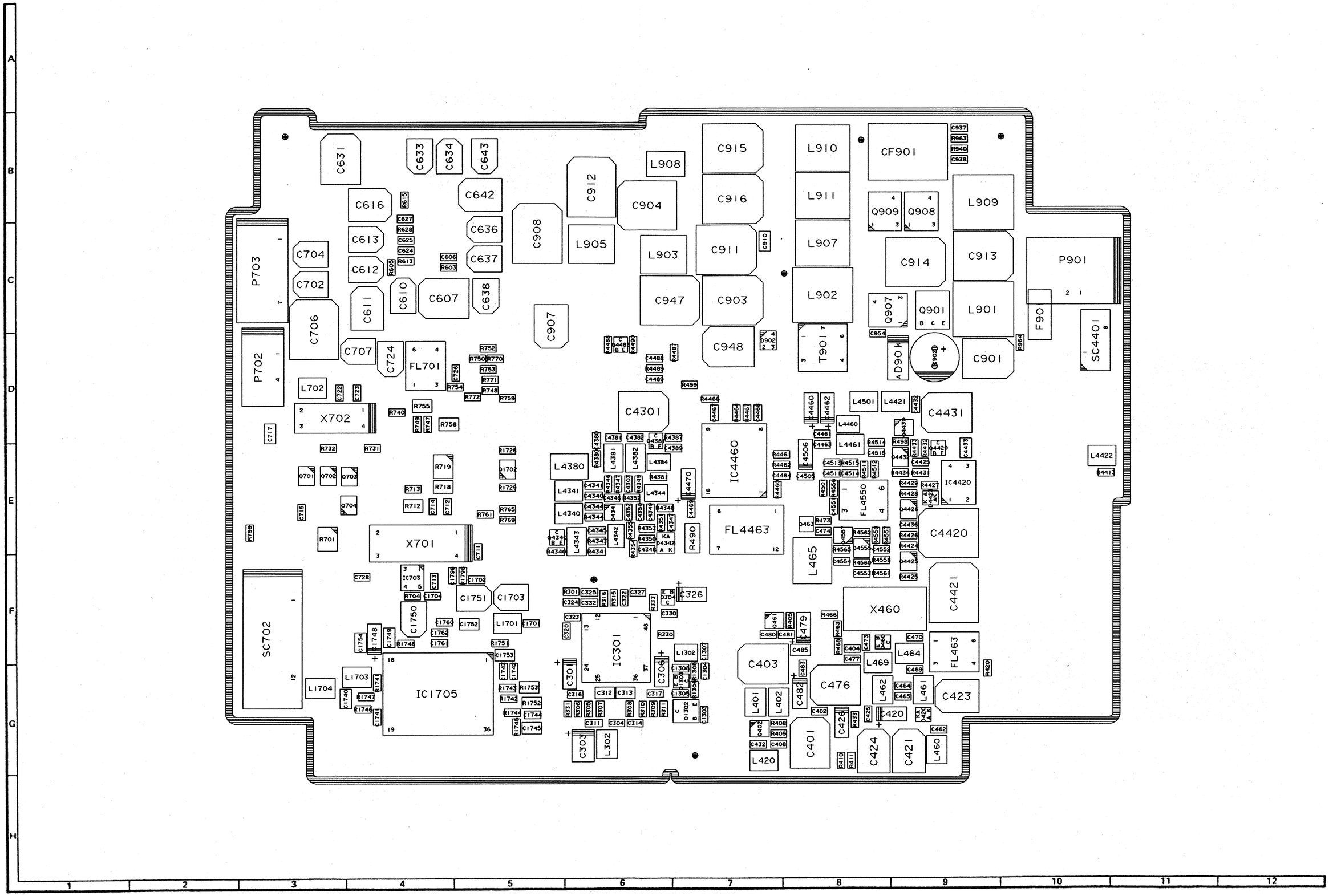
TL1783 (CH1)
ATF ERROR
2V, 10msec/div
TL7782 (CH2)
H-SW-P
5V, 10msec/div
IC701 PIN (97) (CH3)
SEL2
5V, 10msec/div
IC701 pin (98) (CH4)
SEL1
5V, 10msec/div
(VCR VSF mode)



IC701 pin (11) (CH1)
KEY OUT 1
5V, 5msec/div
IC701 pin (10) (CH2)
KEY OUT 2
5V, 5msec/div
IC701 pin (9) (CH3)
KEY OUT 3
5V, 5msec/div



TL7782 (CH1)
H-SW-P
5V, 2msec/div
IC1705 pin (1) (CH2)
DRUM V
1V, 2msec/div
IC1705 pin (12) (CH3)
INT
500mV, 2msec/div


C631
C633
C634
C643
C642
C616
R615
C627
R628
C625
C624
R613
C606
R603
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C637
C638
C613
C612
C610
C607
C611
C704
C702
C706
P703
P702
C707
C724
FL701
R752
R750
R770
R753
R771
R748
R772
R759
R754
C726
L702
C722
C723
X702
R740
R755
R749
R747
R758
C717
R732
R731
R719
R718
R713
R712
C714
C712
R765
R761
R769
Q701
Q702
Q703
Q704
C715
R799
R701
X701
C711
C728
IC703
C713
R704
C1704
C1798
C1702
C1751
C1703
C1750
C1760
C1752
C1762
C1761
C1754
C1748
C1749
C1748
C1751
C1753
L1701
C1701
L1703
L1704
C1740
C1741
C1744
IC1705
C1743
R1753
R1752
C1744
C1745
SC702
C908
C912
C904
L908
C915
C916
L905
L903
C911
C910
C947
C903
C907
C948
R4488
C4489
C4488
C4485
R4489
R4499
C4464
R4465
R4466
R4467
R4468
C4301
C4380
C4381
C4382
C4387
C4389
L4380
L4381
L4382
L4384
L4344
L4341
L4340
L4343
L4342
R490
R4470
C4468
IC4460
FL4463
C4506
L4460
L4461
L4462
L4501
L4421
C4431
L4422
C4433
IC4420
C4420
C4421
L465
X460
C403
C476
C401
C424
C421
L420
L460
C423
L462
L461
L464
L469
C470
C469
C464
C465
C420
C425
C462
C485
C483
C482
C402
C432
C408
R408
R409
R410
R411
R420
C303
L302
C301
IC301
C306
C316
C312
C313
C317
C304
C311
C314
R331
R306
R305
R307
R308
R310
R309
R311
C1302
C1303
C1304
C1305
C1308
L1302
C326
C330
R330
C320
C323
C324
C332
R301
C325
R316
R315
C322
C327
R333
R466
R463
R468
C404
C477
C473
C480
C481
R405
R479
C461
R460
C937
R963
R940
C938
CF901
L910
L911
L907
L902
L909
L901
C914
C913
C901
P901
F90
SC4401
Q909
Q908
Q907
Q901
C954
R954
AD90
Q902
R4498
R4514
R4515
R4513
R4451
R4450
R4554
R4555
R4553
R4456
R4562
R4563
R4560
R4558
R4425
R4426
R4427
R4428
R4429
R4430
R4431
R4432
R4433
R4434
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R4436
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R4438
R4439
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R4441
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R4451
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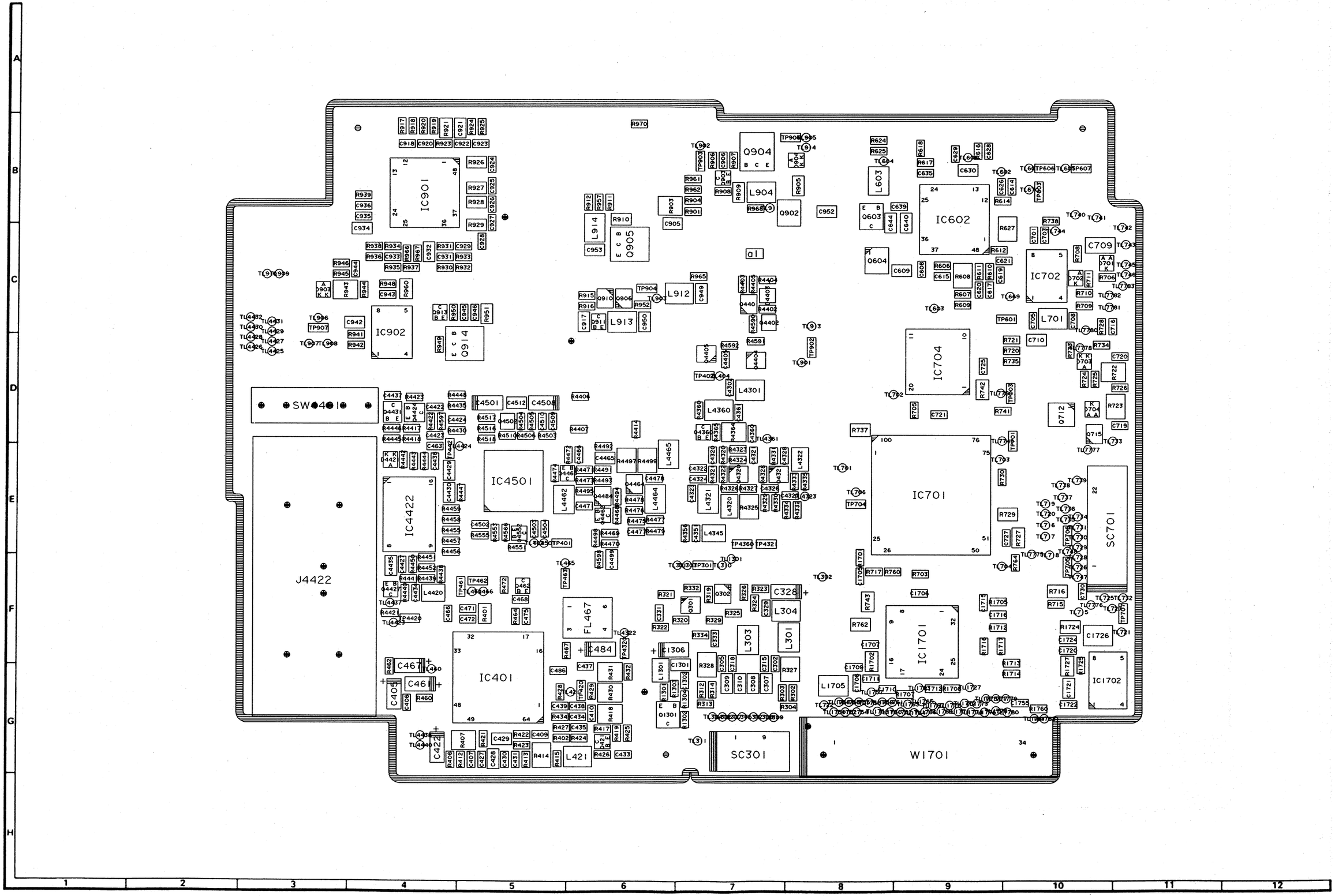
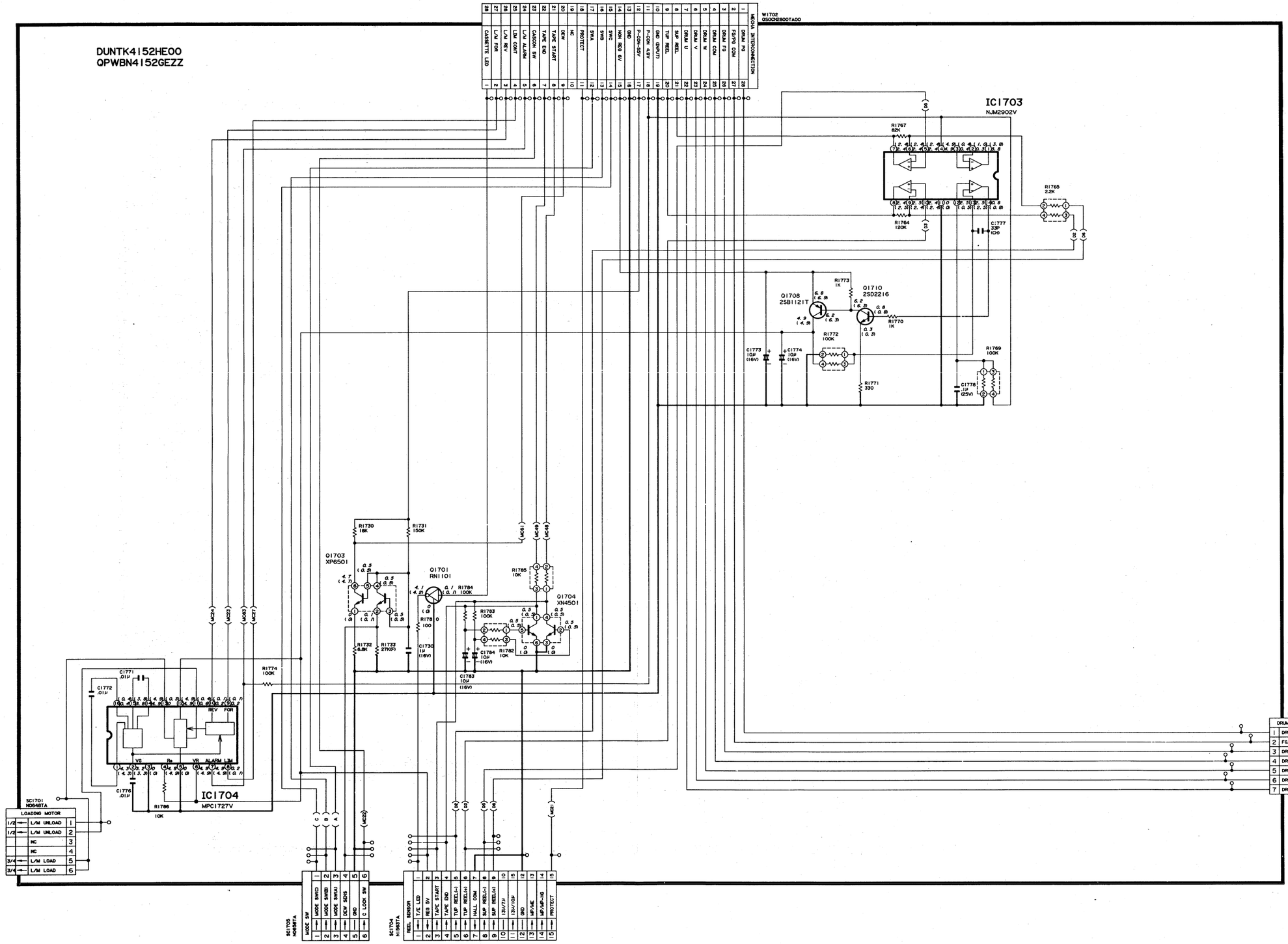
R4462
R4463
R4464

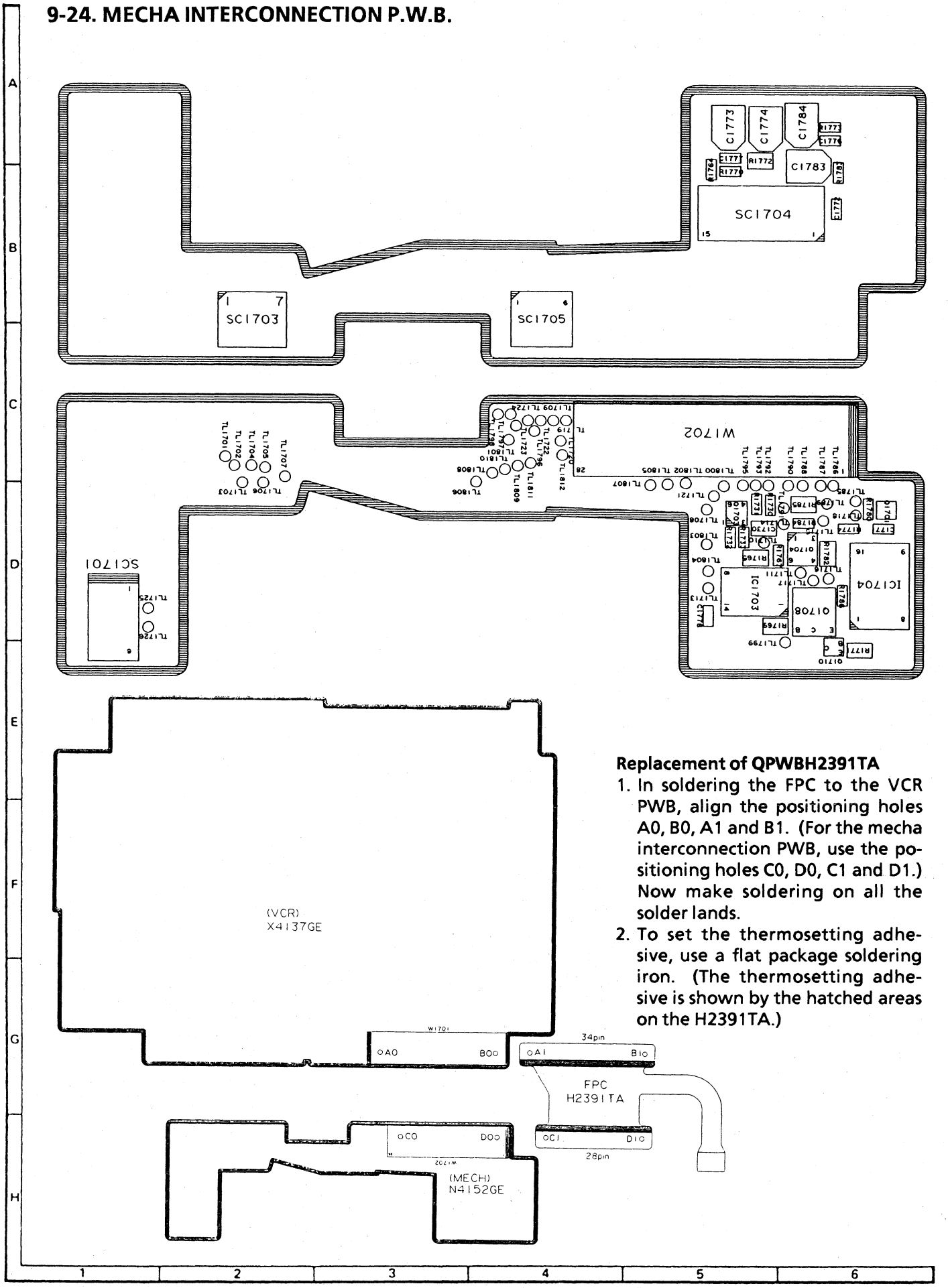

IC901
IC902
IC4501
IC4422
IC401
IC602
IC702
IC704
IC701
IC1701
IC1702
Q904
Q902
Q905
Q914
Q910
Q906
Q903
Q904
Q0301
Q0302
Q0436
Q0440
Q0464
Q0603
Q0604
Q0712
Q0715
L904
L914
L912
L913
L903
L603
L701
L4501
L4360
L4301
L4322
L4321
L4464
L4462
L4465
L4345
L4420
L421
L304
L303
L301
L1705
FL467
J4422
SW4401
SC301
SC701
W1701
TP903
TP904
TP905
TP906
TP907
TP908
TP401
TP402
TP461
TP462
TP463
TP4320
TP4324
TP4326
TP4364
TP4366
TP4402
TP4404
TP301
TP601
TP602
TP603
TP604
TP605
TP606
TP607
TP701
TP702
TP703
TP704
TP1701
TP1702
TP1703

9-23. MECHA INTERCONNECTION CIRCUIT SCHEMATIC DIAGRAM



* VOLTAGE MEASUREMENT MODE
PB ..... Parentheses ( )
REC ..... Without Parentheses

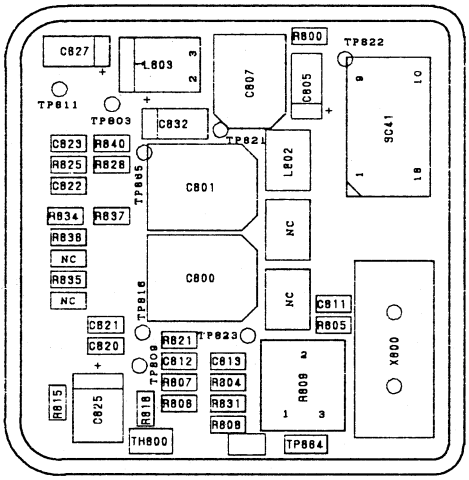
9-24. MECHA INTERCONNECTION P.W.B.

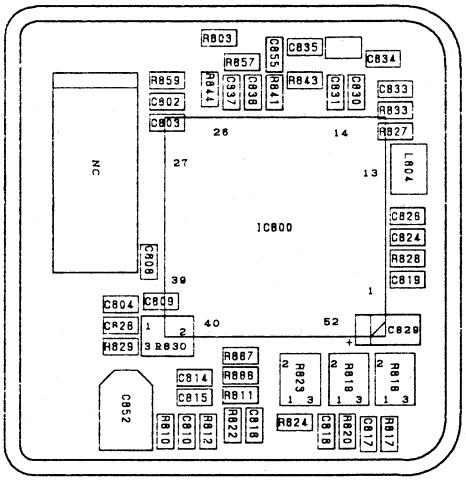


Replacement of QPWBH2391TA

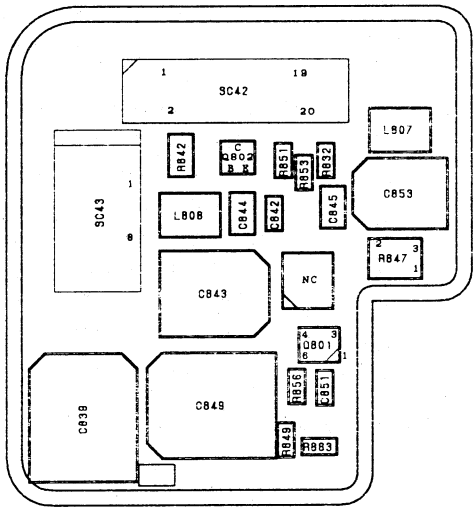
1. In soldering the FPC to the VCR PWB, align the positioning holes A0, B0, A1 and B1. (For the mecha interconnection PWB, use the positioning holes C0, D0, C1 and D1.) Now make soldering on all the solder lands.
2. To set the thermosetting adhesive, use a flat package soldering iron. (The thermosetting adhesive is shown by the hatched areas on the H2391TA.)

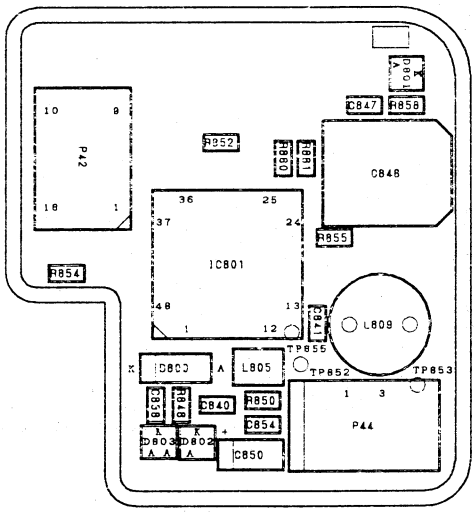
9-25. VIEWFINDER Y/C P.W.B.





9-26. VIEWFINDER DRIVER P.W.B.





9-27. VIEWFINDER Y/C, DRIVER CIRCUIT SCHEMATIC DIAGRAM

V/F Video Signal
Y Signal
C Signal
R Signal (V1)
G Signal (V2)
B Signal (V3)

Y/C

DUNTK2395PM00
QPWBX2395TAZZ ⚠1

SC41 CNCW1845TA V/F DRIVER
1 VIDEO
2 NC
3 P-CON 5V
4 +12.5V
5 NC
6 GND
7 FRP
8 V1 (G)
9 V2 (G)
10 V3 (B)
11 NC
12 HD (V/F)
13 C SYNC
14 OS R
15 NC
16 NC
17 EXT SYNC
18 OS BLK

TP864

VIDEO CHROMA GAMMA CLAMP
IC800
IR3Y06Y

R809 10KΩ M81125TA BRIGHT
R816 15KΩ M8033TA B-SUB BRIGHT
R819 15KΩ M8033TA R-SUB BRIGHT
R823 15KΩ M8033TA CONTRAST
R830 4.7KΩ M8030TA COLOR

L803 CILI0320TA

DRIVER

SC43 MAIN
1 P-CON 5V
2 +16.5V
3 OS BLK
4 OS R
5 VD
6 HD
7 VIDEO
8 GND

SC42 N2053TA LCD UNIT
1 VDDY
2 VSSY
3 LCCOM
4 VID G
5 VID B
6 VID R
7 VSSX
8 VDDX
9 DX
10 CLX 4
11 CLX 4
12 CLX 3
13 CLX 3
14 CLX 2
15 CLX 2
16 CLX 1
17 CLX 1
18 DY
19 CLY
20 CLY

LCD SYNC CONTROL
IC801
ETM3030T

Q801 XP4601
Q802 2SC4738Y
D801 MA132K
D802 MA132K
D803 MA132WK
Q803 2SK612

R847 15KΩ M8033TA VCO

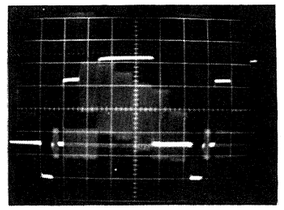
P42 CNCM1843TA V/F YC
1 V/F VIDEO
2 NC
3 P-CON 5V
4 +12.5V
5 NC
6 GND
7 FRP
8 V1 (R)
9 V2 (G)
10 V3 (B)
11 NC
12 HD
13 C SYNC
14 OS R
15 NC
16 NC
17 EXT SYNC
18 OS BLK

P44 N0363TA LCD BACK LIGHT
1 GND
2 BLD
3 +5V

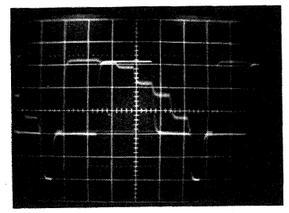
BACK LIGHT UNIT
KLMPV0008TAZZ
FL801
T800

LCD UNIT
RLCDV0006TAZZ
1 VDDY
20 CLY

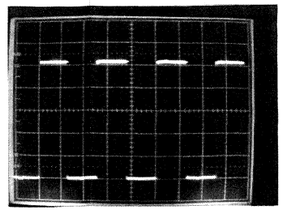
DUNTK2396PM00
QPWBX2396TAZZ ⚠1



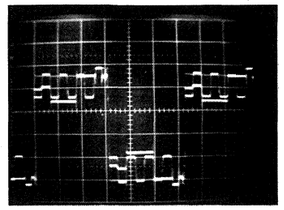
V: 1.2Vp-p
IC800 pin (9)
VIDEO IN
0.2V, 10µsec/div



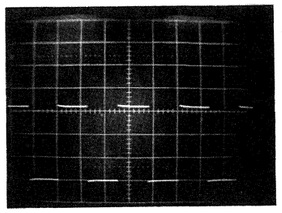
V: 1.2Vp-p
IC800 pin (18)
SYNC SEP
0.2V, 10µsec/div



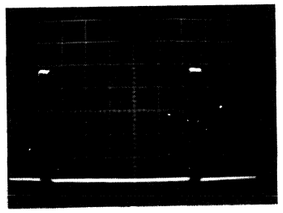
V: 5.1Vp-p
IC800 pin (41)
FRP (Common reverse pulse)
1V, 50µsec/div



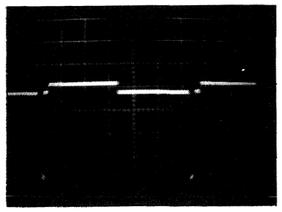
V: 10.1Vp-p
IC800 pin (39)
B (Blue) OUT
2V, 20µsec/div



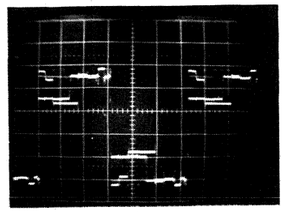
V: 16Vp-p
IC801 pin (36)
CLY (V clock pulse)
5V, 50µsec/div



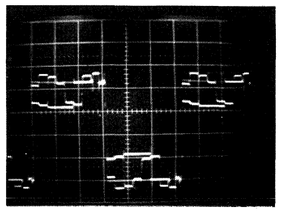
V: 4.8Vp-p
IC800 pin (21)
SYNC OUT
1V, 10µsec/div



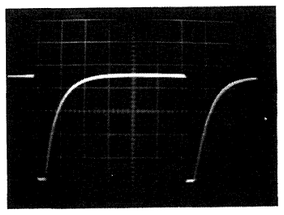
V: 4.2Vp-p
IC800 pin (22)
EXT SYNC IN
1V, 10µsec/div



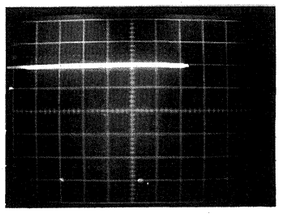
V: 10.1Vp-p
IC800 pin (37)
G (Green) OUT
2V, 20µsec/div



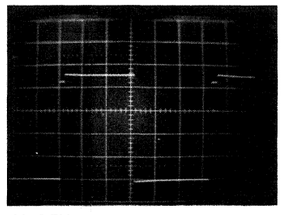
V: 10Vp-p
IC800 pin (35)
R (Red) OUT
2V, 20µsec/div



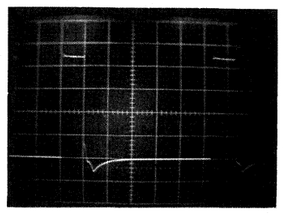
V: 4.5Vp-p
IC800 pin (23)
TIME CONSTANT
1V, 10µsec/div



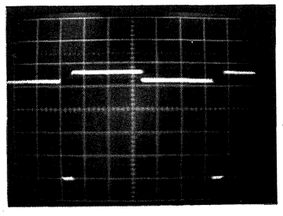
V: 5Vp-p
IC801 pin (15)
VD (V SYNC)
1V, 5msec/div



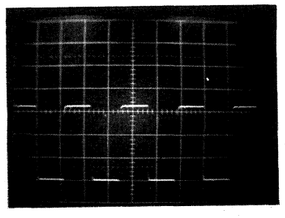
V: 4.5Vp-p
IC801 pin (7)
OFH (1/2H Division)
1V, 10µsec/div



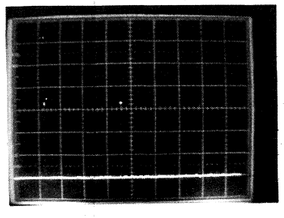
V: 4.4Vp-p
IC801 pin (10)
BLD (Back light drive pulse)
1V, 10µsec/div



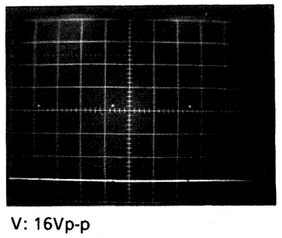
V: 4.6Vp-p
IC801 pin (18)
HD (H SYNC)
1V, 10µsec/div



V: 16Vp-p
IC801 pin (33)
CLX (H clock pulse)
5V, 0.5µsec/div

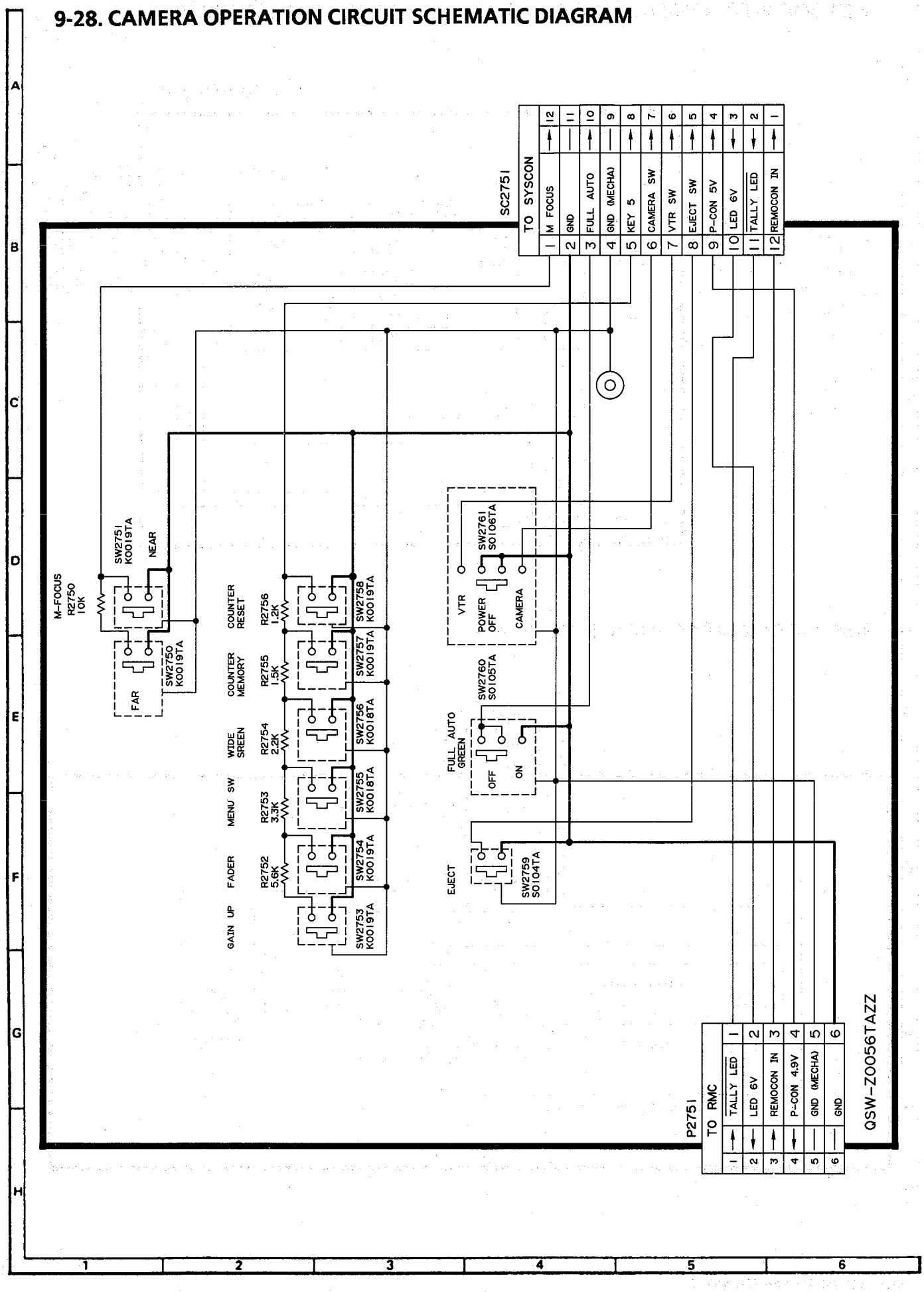


V: 16Vp-p
IC801 pin (34)
DY (V start pulse)
5V, 5msec/div

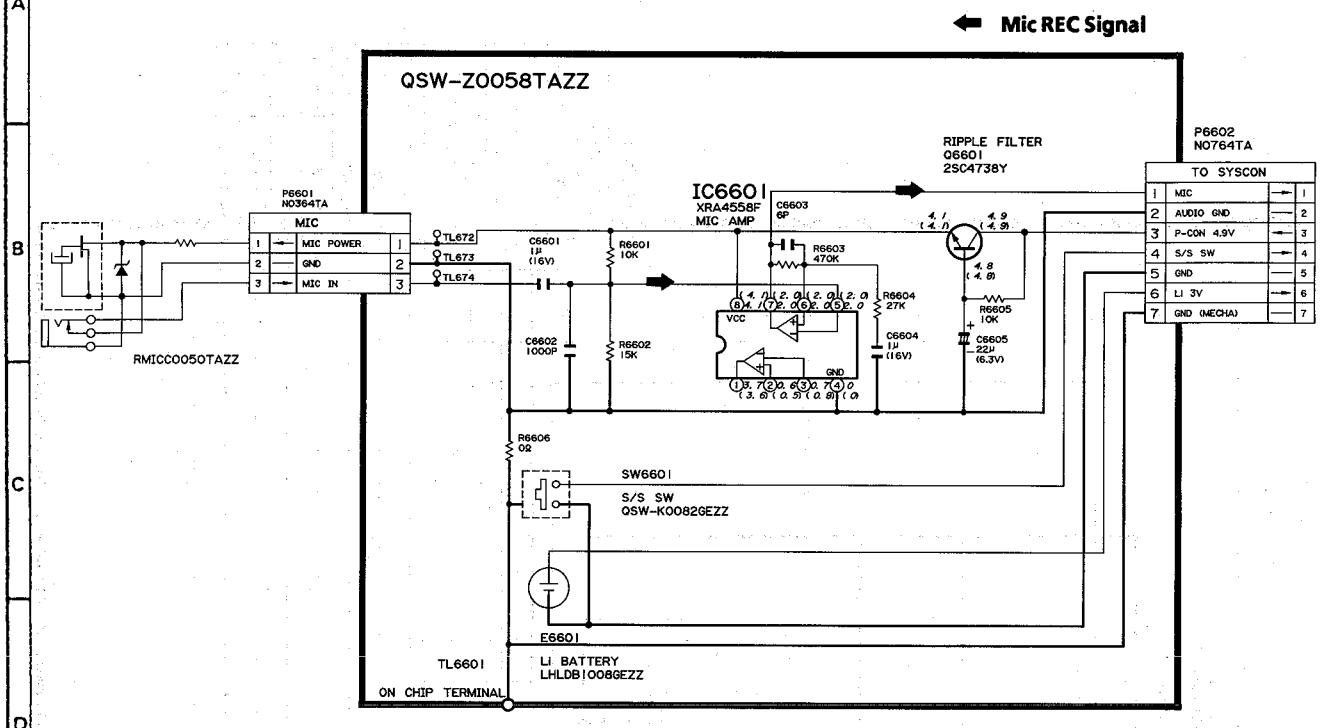


V: 16Vp-p
IC801 pin (25)
DX (H start pulse)
5V, 20µsec/div

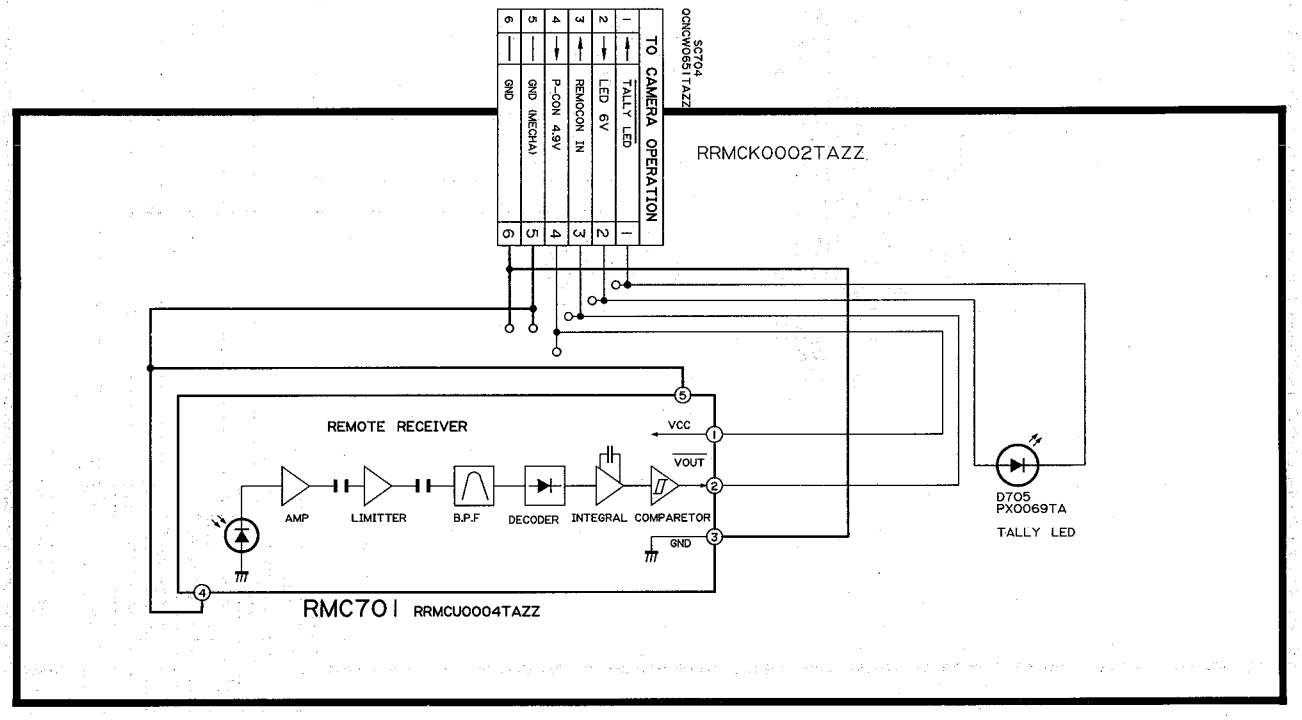
9-28. CAMERA OPERATION CIRCUIT SCHEMATIC DIAGRAM



9-29. MIC AMP/LI HOLDER/START·STOP CIRCUIT SCHEMATIC DIAGRAM



9-30. R/C CIRCUIT SCHEMATIC DIAGRAM



* VOLTAGE MEASUREMENT MODE
PB ..... Parentheses ( )
REC ..... Without Parentheses

10. REPLACEMENT PARTS LIST/ EXPLODED VIEWS

10-1. ELECTRICAL PARTS LIST

Many electrical and mechanical parts in camcorder have special safety-related characteristics.
These characteristics are often not evident from visual inspection nor can be protection afforded by them necessarily obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have special safety characteristics are identified in this manual, electrical components having such features are identified by ⚠ and shaded areas in the Replacement Parts Lists and Schematic Diagrams.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. PRICE CODE

⚠ MARK: SAFETY RELATED PARTS

PWB ASSEMBLY IS NOT REPLACEMENT ITEM

Ref. No.	Part No.	★	Description	Code
	DUNTK2383PM00		CAMERA PWB	—
	DUNTK2395PM00		VIEWFINDER Y/C PWB	—
	DUNTK2396PM00		VIEWFINDER DRIVER PWB	—
	DUNTK2442PM00		AUTO FOCUS PWB	—
	DUNTK4137HE02		VCR PWB (VL-S6S/H/S68E)	—
	DUNTK4137HE03		VCR PWB (VL-S6X)	—
	DUNTK4152HE00		MECHA INTERCONNECTION PWB	—
	DUNTK4153HE00		CCD PWB	—
	QSW-Z0056TAZZ		CAMERA OPERATION PWB	—
	QSW-Z0058TAZZ		MIC AMP/LI HOLDER/ START • STOP PWB	—
	RRMCK0002TAZZ		R/C PWB	—
	DUNTK2448PM00		VCR SUB PWB	—

Ref. No.	Part No.	★	Description	Code
DUNTK2383PM00 CAMERA PWB				
INTEGRATED CIRCUITS				
IC1	VHiLZ95D56M-1		I.C.	AP
IC2	VHiCXD1250N-1		CXD1250N	AS
IC3	VHiNJ79L08U-1		NJM79L08UA	AD
IC101	VHiHA8144AF-1		HA118144AF	AP
IC102	VHiHD9306AF-1		HD49306AF	AW
IC104	RH-iX0171TAZZ		HG51B143FB	BL
IC105	RH-iX1426CEZZ		TC74HC04AF	AC
IC201	RH-iX1961CEZZ		HD49307	AU
IC501	RH-iX0192TAZZ		I.C.	AZ
IC502	VHiCT93L56K-1		I.C.	AM
IC503	VHiPST592iM-1		IC-PST592IMT	AE
IC504	RH-iX0137TAZZ		LR38172	BB
IC505	VHiTCHT707F-1		TC74HCT7007AF	AD
IC1501	VHiMB8346BV-1		MB88346BPFV	AN
IC1502, 1504	VHiNJM2902V-1		NJM2902V	AD
IC1503	VHiMM1179XF-1		I.C.	AK
TRANSISTORS				
Q1	VSXP1501///-1		Transistor	AB
Q2, 4, 103, 105, 201	VSXP6501///-1		Transistor	AB
Q3, 108	VS2SB1462//-1		Transistor	AA
Q101, 107, 109, 202, 204, 501, 1502, 1509	VS2SD2216//-1		Transistor	AA
Q102, 203	VSXP4601///-1		Transistor	AB
Q104	VS2SK94-X3/-1		Transistor	AC
Q106	VS2SC4626C/-1		Transistor	AB
Q1501	VS2SD874AS/-1		Transistor	AC
Q1503, 1508	VSXP1213///-1		Transistor	AB
Q1504	VSUMA7/////-1		Transistor	AC
Q1505	VSXP1215///-1		Transistor	AA
Q1506	VSUMG8/////-1		Transistor	AC
Q1507	VS2SB1132Q/-1		Transistor	AC
Q1510	VSXP6401///-1		Transistor	AB
DIODES AND LED'S				
D1, 4, 5, 7, 1501	VHDMA132K//-1		Diode	AA
D2	VHDMA133///-1		Diode	AB
D3,	VHDMA132WA/-1		Diode	AA

Ref. No.	Part No.	★	Description	Code
D101, 501	VHDMA132WA/-1		Diode	AA
D6	VHDMA132WK/-1		Diode	AA
	PACKAGED CIRCUITS			
TH101	VHHNTA10338-1		Thermistor	AB
X1	RCRSZ0009GEZZ		Crystal	AR
X101	RCRSZ0005TAZZ		Crystal	AU
	COIL AND TRANSFORMERS			
CF501	RFiLC0050TAZZ		Filter	AF
L1	VPABM1R0JR82N		Peaking 1µH 5%	AC
L2, 101, 102, 103, 105, 201, 202, 501, 502, 503	VP-1M100K1R6N		Peaking 10µH 10%	AC
L104	VP-1M220K2R9N		Peaking 22µH 10%	AC
L203	VP-1M470K5R4N		Peaking 47µH 10%	AC
L204	VP-1M680K6R9N		Peaking 68µH 10%	AC
	CAPACITORS			
C1	VCKYTV1HF154Z		0.15µF 50V Ceramic	AA
C2, 3, 38, 102, 104, 111, 121, 124, 151, 159, 164, 202, 207, 513, 515, 516, 1502, 1518	VCKYCY1HF103Z		0.01µF 50V Ceramic	AA
C4, 16, 205	VCEAPE1VW335M		3.3µF 35V Electrolytic	AB
C5, 1505	VCKYCY1EF104Z		0.1µF 25V Ceramic	AA
C7, 11, 107, 110, 113, 115, 117, 118, 119, 122, 125, 153, 155, 162, 219, 502, 503, 505, 506, 512, 1521	VCKYCY1CF104Z		0.1µF 16V Ceramic	AA
C12, 1503	VCKYTV1CF105Z		1.0µF 16V Ceramic	AB
C13, 31, 37, 215, 507, 508, 509, 510	VCKYCY1HB102K		1000pF 50V Ceramic	AA
C14, 23, 203	VCEAPE1HW105M		1.0µF 50V Electrolytic	AB
C21	VCEAPE1CW475M		4.7µF 16V Electrolytic	AB
C22	VCEAPE1VW225M		2.2µF 35V Electrolytic	AB
C30, 209, 211	VCCCCY1HH220J		22pF 50V Ceramic	AA
C34, 35, 36, 216	VCCCCY1HH470J		47pF 50V Ceramic	AA
C39, 1506	VCSATA0JJ475M		4.7µF 6.3V Tantalum	AC
C101, 120, 150, 152, 154, 201, 206, 501, 1507	RC-EZ0244TAZZ		Capacitor	AB
C103, 123, 158, 204, 504, 511, 1508	VCEAPE1CW106M		10µF 16V Electrolytic	AB
C105, 156	VCCCCY1HH560J		56pF 50V Ceramic	AA
C106	VCSAPD1CJ105M		1.0µF 16V Tantalum	AC
C108	VCSAPD1DJ474M		0.47µF 20V Tantalum	AD
C109, 128, 160, 161	VCKYTV1EB104K		0.1µF 25V Ceramic	AB
C112	VCSAPD1DJ684M		0.68µF 20V Tantalum	AC

Ref. No.	Part No.	★	Description	Code
C114	VCCCCY1HH180J		18pF 50V Ceramic	AA
C116	VCE9PE1AW475M		4.7µF 10V Electrolytic, (N.P)	AC
C126	VCCCCY1HH151J		150pF 50V Ceramic	AA
C127	VCCCCY1HH820J		82pF 50V Ceramic	AA
C130	VCCCCY1HH150J		15pF 50V Ceramic	AA
C210	VCCCCY1HH270J		27pF 50V Ceramic	AA
C212	VCCCCY1HH680J		68pF 50V Ceramic	AA
C213, 217	VCCCCY1HH100D		10pF 50V Ceramic	AA
C218	VCCCCY1HH120J		12pF 50V Ceramic	AA
C1504	VCEAPE1EW475M		4.7µF 25V Electrolytic	AB
C1509, 1510	VCKYCY1CB333K		0.033µF 16V Ceramic	AA
C1511, 1512	VCKYTV1EB223K		0.022µF 25V Ceramic	AB
C1513	VCKYTV1CB224K		0.22µF 16V Ceramic	AB
C1517	VCKYCY1HB332K		3300pF 50V Ceramic	AA
C1520	VCKYCY1HB682K		6800pF 50V Ceramic	AA
RESISTORS				
R1, 10, 13	VRS-CY1JF105J		1.0M 0.063W 5% Metal Oxide	AA
R4, 158	VRS-CY1JF274J		270k 0.063W 5% Metal Oxide	AA
R5, 30, 106, 1520	VRS-CY1JF472J		4.7k 0.063W 5% Metal Oxide	AA
R6, 203	VRS-CY1JF271J		270 0.063W 5% Metal Oxide	AA
R7, 122	VRS-CY1JF683J		68k 0.063W 5% Metal Oxide	AA
R9, 102, 112	VRS-CY1JF153J		15k 0.063W 5% Metal Oxide	AA
R11	VRS-CY1JF123F		12k 0.063W 1% Metal Oxide	AA
R12	VRS-CY1JF332F		3.3k 0.063W 1% Metal Oxide	AA
R17	VRS-CA1JF823J		82k 0.063W 5% Metal Oxide	AA
R25	VRS-CY1JF821J		820 0.063W 5% Metal Oxide	AA
R26, 119, 515, 1501, 1528, 1543, 1546	VRS-CY1JF682J		6.8k 0.063W 5% Metal Oxide	AA
R27, 103, 111, 150, 501, 509, 523, 1513, 1534, 1544	VRS-CY1JF103J		10k 0.063W 5% Metal Oxide	AA
R29, 39,	VRS-CY1JF332J		3.3k 0.063W 5% Metal Oxide	AA
R224	VRS-CY1JF332J		3.3k 0.063W 5% Metal Oxide	AA
R31, 32, 1522	VRS-CY1JF331J		330 0.063W 5% Metal Oxide	AA
R33, 518	VRS-CA1JF101J		100 0.063W 5% Metal Oxide	AA
R37	VRS-CA1JF331J		330 0.063W 5% Metal Oxide	AA
R101, 104, 159, 528, 1505	VRS-CY1JF222J		2.2k 0.063W 5% Metal Oxide	AA
R105	VRS-CY1JF272J		2.7k 0.063W 5% Metal Oxide	AA
R107, 108, 157, 504, 1518	VRS-CA1JF103J		10k 0.063W 5% Metal Oxide	AA
R109, 120	VRS-CY1JF471J		470 0.063W 5% Metal Oxide	AA
R110, 164	VRS-CY1JF273J		27k 0.063W 5% Metal Oxide	AA
R114	VRS-CY1JF113J		11k 0.063W 5% Metal Oxide	AA
R121, 123, 1504, 1506	VRS-CY1JF224J		220k 0.063W 5% Metal Oxide	AA
R124, 127, 1527, 1530	VRS-CY1JF333J		33k 0.063W 5% Metal Oxide	AA
R125, 1507	VRS-CY1JF822J		8.2k 0.063W 5% Metal Oxide	AA
R126	VRS-CY1JF182J		1.8k 0.063W 5% Metal Oxide	AA
R128, 508, 1510, 1514, 1521	VRS-CY1JF223J		22k 0.063W 5% Metal Oxide	AA
R151, 152, 171, 172, 173, 174, 517, 519	VRS-CY1JF101J		100 0.063W 5% Metal Oxide	AA
R155, 220, 511	VRS-CA1JF152J		1.5k 0.063W 5% Metal Oxide	AA
R160, 1515	VRS-CY1JF473J		47k 0.063W 5% Metal Oxide	AA
R161, 522, 533, 1548	VRS-CY1JF102J		1.0k 0.063W 5% Metal Oxide	AA
R170, 502, 536, 539, 1512	VRS-CY1JF000J		00 0.063W 5% Metal Oxide	AA
R201	VRS-CA1JF271J		270 0.063W 5% Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R204, 1516	VRS-CY1JF912J		9.1k 0.063W 5% Metal Oxide	AA
R205, 1509	VRS-CY1JF563J		56k 0.063W 5% Metal Oxide	AA
R206, 1535	VRS-CA1JF392J		3.9k 0.063W 5% Metal Oxide	AA
R207, 208, 222, 225, 510	VRS-CA1JF102J		1.0k 0.063W 5% Metal Oxide	AA
R209, 226, 1526	VRS-CY1JF152J		1.5k 0.063W 5% Metal Oxide	AA
R218	VRS-CA1JF473J		47k 0.063W 5% Metal Oxide	AA
R514	VRS-CY1JF242J		2.4k 0.063W 5% Metal Oxide	AA
R516, 526, 1511	VRS-CA1JF223J		22k 0.063W 5% Metal Oxide	AA
R529, 1503	VRS-CA1JF222J		2.2k 0.063W 5% Metal Oxide	AA
R1502	VRS-CY1JF104J		100k 0.063W 5% Metal Oxide	AA
R1508	VRS-CY1JF8R2J		8.2 0.063W 5% Metal Oxide	AA
R1517	VRS-CY1JF184J		180k 0.063W 5% Metal Oxide	AA
R1519	VRS-CY1JF474J		470k 0.063W 5% Metal Oxide	AA
R1523	VRS-CY1JF562J		5.6k 0.063W 5% Metal Oxide	AA
R1524	VRS-CA1JF821J		820 0.063W 5% Metal Oxide	AA
R1529	VRS-CY1JF225J		2.2M 0.063W 5% Metal Oxide	AA
R1531	VRS-CY1JF393J		39k 0.063W 5% Metal Oxide	AA
R1532	VRS-CY1JF392J		3.9k 0.063W 5% Metal Oxide	AA
R1537	VRS-CY1JF180J		18 0.063W 5% Metal Oxide	AA
R1539, 1540	VRS-CY1JF123J		12k 0.063W 5% Metal Oxide	AA
R1541	VRS-CA1JF124J		120k 0.063W 5% Metal Oxide	AA
R1545	VRS-CY1JF244F		240k 0.063W 1% Metal Oxide	AA
R1547	VRS-CY1JF153F		15k 0.063W 1% Metal Oxide	AA

MISCELLANEOUS PARTS

	QCNW-1241TAZZ		Connecting Cord	AK
P501	QPLGN0364TAZZ		Plug	AC
SC1	QSOCN1453TAZZ		Socket	AE
SC201	QSOCN2248TAZZ		Socket	AF
SC202	QCNCW2445TAZZ		Connector	AF
SC1501	QSOCN2047TAZZ		Socket	AE

Ref. No.	Part No.	★	Description	Code
CABINET PARTS				
TP1, 2, 3	QLUGP0111TAFW		Lug	AA

DUNTK2395PM00 VIEWFINDER Y/C PWB

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUITS				
IC800	VHiiR3Y06Y/-1		I.C.	AU
PACKAGED CIRCUITS				
TH800	VHHNTA20234-1		Thermistor	AC
X800	RCRSB0058GEZZ		Crystal	AH
COIL AND TRANSFORMERS				
L802	VP-NM470K2R0N		Peaking 47µH 10%	AB
L803	RCiLi0320TAZZ		IF Coil	AE
L804	VPABM220J4R1N		Peaking 22µH 5%	AC
CONTROLS				
R809	RVR-M8125TAZZ		Variable Resistor	AF
R816, 819, 823	RVR-M8033TAZZ		Variable Resistor	AC
R830	RVR-M8030TAZZ		Variable Resistor	AC
CAPACITORS				
C800	VCEAPF1CW226M		22µF 16V Electrolytic	AB
C801	VCEAPF1AW336M		33µF 10V Electrolytic	AC
C802, 808, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 824, 828, 834,	VCKYCY1EB103K		0.01µF 25V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
C836, 837	VCKYCY1EB103K		0.01µF 25V Ceramic	AA
C803	VCKYCY1CF473Z		0.047µF 16V Ceramic	AA
C804	VCCCCY1HH150J		15pF 50V Ceramic	AA
C805	VCSAPD1DJ474M		0.47µF 20V Tantalum	AD
C807	VCEAPF1CW106M		10µF 16V Electrolytic	AB
C809, 826	VCKYCY1CF104Z		0.1µF 16V Ceramic	AA
C823	VCKYCY1HB681K		680pF 50V Ceramic	AA
C825	VCSATE0JJ106M		10µF 6.3V Tantalum	AD
C827	VCSATA0GJ106M		10µF 4.0V Tantalum	AC
C829, 832	VCSAPD1AJ105M		1.0µF 10V Tantalum	AD
C830	VCKYCY1HB222K		2200pF 50V Ceramic	AA
C831	VCKYCY1EF153Z		0.015µF 25V Ceramic	AA
C833	VCCCCY1HH270J		27pF 50V Ceramic	AA
C835	VCCCCY1HH151J		150pF 50V Ceramic	AA
C855	VCCCCY1HH120J		12pF 50V Ceramic	AA
VARIABLE CAPACITORS				
C852	RTO-H0057TAZZ		Trimmer Capacitor	AD
RESISTORS				
R800	VRS-CY1JF822J		8.2k 0.063W 5% Metal Oxide	AA
R803	VRS-CY1JF562J		5.6k 0.063W 5% Metal Oxide	AA
R804, 805, 806, 807, 824	VRS-CY1JF393J		39k 0.063W 5% Metal Oxide	AA
R808, 815, 818	VRS-CY1JF563J		56k 0.063W 5% Metal Oxide	AA
R810	VRS-CY1JF273J		27k 0.063W 5% Metal Oxide	AA
R811	VRS-CY1JF153F		15k 0.063W 1% Metal Oxide	AA
R812	VRS-CY1JF163F		16k 0.063W 1% Metal Oxide	AA
R817, 820	VRS-CY1JF513J		51k 0.063W 5% Metal Oxide	AA
R821, 843	VRS-CY1JF333J		33k 0.063W 5% Metal Oxide	AA
R822	VRS-CY1JF433J		43k 0.063W 5% Metal Oxide	AA
R825	VRS-CY1JF106J		10ohm 0.063W 5% Metal Oxide	AA
R826, 833	VRS-CY1JF105J		1.0M 0.063W 5% Metal Oxide	AA
R827	VRS-CY1JF272F		2.7k 0.063W 1% Metal Oxide	AA
R828	VRS-CY1JF824J		820k 0.063W 5% Metal Oxide	AA
R829	VRS-CY1JF473J		47k 0.063W 5% Metal Oxide	AA
R831	VRS-CY1JF683J		68k 0.063W 5% Metal Oxide	AA
R834	VRS-CY1JF562F		5.6k 0.063W 1% Metal Oxide	AA
R835, 836, 859	VRS-CY1JF000J		00 0.063W 5% Metal Oxide	AA
R837, 867	VRS-CY1JF333F		33k 0.063W 1% Metal Oxide	AA
R840	VRS-CY1JF271J		270 0.063W 5% Metal Oxide	AA
R841	VRS-CY1JF102J		1.0k 0.063W 5% Metal Oxide	AA
R844	VRS-CY1JF101J		100 0.063W 5% Metal Oxide	AA
R857	VRS-CY1JF102F		1.0k 0.063W 1% Metal Oxide	AA
R866	VRS-CY1JF473F		47k 0.063W 1% Metal Oxide	AA
MISCELLANEOUS PARTS				
SC41	QCNCW1845TAZZ		Connector	AF
CABINET PARTS				
TP864	QLUGP0111TAFW		Lug	AA

DUNTK2396PM00 VIEWFINDER DRIVER PWB

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUITS				
IC801	VHiETM3030T-1		I.C.	AX
TRANSISTORS				
Q801	VSXP4601///-1		Transistor	AB
Q802	VS2SC4738Y/-1		Transistor	AA
DIODES AND LED'S				
D800	VHD1T33////-1		Diode	AE
D801, 802	VHDMA132K//-1		Diode	AA
D803	VHDMA132WK/-1		Diode	AA
COIL AND TRANSFORMERS				
L805	VPABM120J2R9N		Peaking 12µH 5%	AC
L806	RCiLC0010TAZZ		Coil	AE

Ref. No.	Part No.	★	Description	Code
L807	VP-NM151K7R8N		Peaking 150µH 10%	AC
L808	VP-NM101K4R2N		Peaking 100µH 10%	AC
	CONTROLS			
R847	RVR-M8033TAZZ		Variable Resistor	AC
	CAPACITORS			
C838, 842	VCKYCY1CF104Z		0.1µF 16V Ceramic	AA
C839, 849	RC-EZ0217TAZZ		Capacitor	AC
C840	VCKYCY1HB102K		1000pF 50V Ceramic	AA
C841	VCCCCY1HH680J		68pF 50V Ceramic	AA
C843	VCEAPF1VW106M		10µF 35V Electrolytic	AB
C844, 845	VCKYTV1EF104Z		0.1µF 25V Ceramic	AB
C846	VCEAPF0JW107M		100µF 6.3V Electrolytic	AC
C847	VCKYCY1EB103K		0.01µF 25V Ceramic	AA
C850	VCSAPD0JJ225M		2.2µF 6.3V Tantalum	AD
C851	VCCCCY1HH181J		180pF 50V Ceramic	AA
C853	VCEAPF0JW226M		22µF 6.3V Electrolytic	AB
C854	VCKYCY1HB472K		4700pF 50V Ceramic	AA
	RESISTORS			
R832	VRS-CY1JF334J		330k 0.063W 5% Metal Oxide	AA
R842	VRS-TV1JD681J		680 0.063W 5% Metal Oxide	AA
R848, 858	VRS-CY1JF104J		100k 0.063W 5% Metal Oxide	AA
R849	VRS-CY1JF102J		1.0k 0.063W 5% Metal Oxide	AA
R850, 855	VRS-CY1JF472J		4.7k 0.063W 5% Metal Oxide	AA
R851	VRS-CY1JF105J		1.0M 0.063W 5% Metal Oxide	AA
R852, 854	VRS-CY1JF273J		27k 0.063W 5% Metal Oxide	AA
R853	VRS-CY1JF154J		150k 0.063W 5% Metal Oxide	AA
R856	VRS-CY1JF473F		47k 0.063W 1% Metal Oxide	AA
R860	VRS-CY1JF682F		6.8k 0.063W 1% Metal Oxide	AA
R861	VRS-CY1JF273F		27k 0.063W 1% Metal Oxide	AA
R863	VRS-CY1JF471J		470 0.063W 5% Metal Oxide	AA
	MISCELLANEOUS PARTS			
P42	QCNCM1843TAZZ		Connector	AH
P44	QPLGN0363TAZZ		Plug	AC
SC42	QSOCN2053TAZZ		Socket	AF
SC43	QSOCN0848TAZZ		Socket	AE

DUNTK2442PM00 AUTO FOCUS PWB

Ref. No.	Part No.	★	Description	Code
	INTEGRATED CIRCUITS			
IC2501	RH-iX0119TAZZ		MSM74H038GSV1K	AT
IC2502	VHiCD1172AM-1		CXD1172AM	AN
IC2503	VHiNJU4052M-1		NJU4052BM	AE
IC2504	VHiNJM2902V-1		NJM2902V	AD
	TRANSISTORS			
Q2501, 2505	VSXP6401///-1		Transistor	AB
Q2502, 2503, 2504, 2506, 2513	VSXP4601///-1		Transistor	AB
Q2507	VS2SD2216//-1		Transistor	AA
Q2508	VSXP6501///-1		Transistor	AB
Q2509, 2510, 2511	VSDTC124EE/-1		Transistor	AA
	COIL AND TRANSFORMERS			
FL2501	RCiLF0277TAZZ		Coil	AH
L2501, 2502	VP-1M100K1R6N		Peaking 10µH 10%	AC
	CAPACITORS			
C2502, 2503, 2511, 2515, 2516, 2520, 2523	VCKYCY1CF104Z		0.1µF 16V Ceramic	AA
C2504, 2505	VCCCCY1HH331J		330pF 50V Ceramic	AA
C2506	VCCCCY1HH101J		100pF 50V Ceramic	AA
C2507	VCCCCY1HH150J		15pF 50V Ceramic	AA
C2508	VCCCCY1HH271J		270pF 50V Ceramic	AA
C2509, 2510	VCKYTV1CF224Z		0.22µF 16V Ceramic	AB
C2512	VCKYTV1CF474Z		0.47µF 16V Ceramic	AB
C2513	VCKYTV1HB153K		0.015µF 50V Ceramic	AA
C2514, 2521, 2522	VCSATA0JJ475M		4.7µF 6.3V Tantalum	AC

Ref. No.	Part No.	★	Description	Code
C2517, 2518, 2519	VCSATA0GJ106M		10μF 4.0V Tantalum	AC
RESISTORS				
R2501	VRS-CY1JF000J		00 0.063W 5% Metal Oxide	AA
R2502, 2507, 2514, 2526	VRS-CY1JF392J		3.9k 0.063W 5% Metal Oxide	AA
R2503	VRS-CY1JF821J		820 0.063W 5% Metal Oxide	AA
R2504, 2546, 2547	VRS-CY1JF331J		330 0.063W 5% Metal Oxide	AA
R2505	VRS-CY1JF153J		15k 0.063W 5% Metal Oxide	AA
R2506, 2510, 2520, 2521, 2531, 2539	VRS-CY1JF102J		1.0k 0.063W 5% Metal Oxide	AA
R2508, 2543	VRS-CY1JF393J		39k 0.063W 5% Metal Oxide	AA
R2509	VRS-CY1JF273J		27k 0.063W 5% Metal Oxide	AA
R2511, 2534	VRS-CY1JF152J		1.5k 0.063W 5% Metal Oxide	AA
R2512, 2515, 2536	VRS-CY1JF332J		3.3k 0.063W 5% Metal Oxide	AA
R2513, 2522, 2533	VRS-CY1JF222J		2.2k 0.063W 5% Metal Oxide	AA
R2516, 2518, 2519, 2532	VRS-CY1JF472J		4.7k 0.063W 5% Metal Oxide	AA
R2517	VRS-CY1JF682J		6.8k 0.063W 5% Metal Oxide	AA
R2523	VRS-CY1JF471J		470 0.063W 5% Metal Oxide	AA
R2524, 2527	VRS-CY1JF104J		100k 0.063W 5% Metal Oxide	AA
R2525, 2535, 2537	VRS-CY1JF562J		5.6k 0.063W 5% Metal Oxide	AA
R2528, 2544, 2550	VRS-CY1JF103J		10k 0.063W 5% Metal Oxide	AA
R2529, 2530	VRS-CY1JF122J		1.2k 0.063W 5% Metal Oxide	AA
R2538, 2548	VRS-CY1JF101J		100 0.063W 5% Metal Oxide	AA
R2540	VRS-CY1JF393F		39k 0.063W 1% Metal Oxide	AA
R2541, 2542	VRS-CY1JF333F		33k 0.063W 1% Metal Oxide	AA
R2545	VRS-CY1JF221J		220 0.063W 5% Metal Oxide	AA
R2551, 2553	VRS-CA1JF103J		10k 0.063W 5% Metal Oxide	AA
R2552	VRS-CA1JF682J		6.8k 0.063W 5% Metal Oxide	AA
R2554	VRS-CY1JF183J		18k 0.063W 5% Metal Oxide	AA
MISCELLANEOUS PARTS				
P2501	QPLGN1163TAZZ		Plug	AD

DUNTK4137HE02 VCR PWB (VL-S6S/H/S68E)
DUNTK4137HE03 VCR PWB (VL-S6X)

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUITS				
IC301	VHiCXA1202R-1		CXA1202R	AR
IC401	VHiHA118272-1		HA118272F	AX
IC602	VHiLA7454W/-1		LA7454W	AT
IC701	RH-iX0188TAZZ		CXP80724-166R	AY
IC702	VHiS8420AF/-1		S-8420AF-T1	AL
IC703	VHiTC7S08F/-1		TC7S08F	AC
IC704	RH-iX0158TAZZ		I.C.	AP
IC901	VHiMB3785V/-1		MB3785APFV	AQ
IC902	VHiBA9701F/-1		BA9701F	AF
IC1701	VHiXR10813/-1		XR10813CQ	AV
IC1702	VHiNJM2904M-1		NJM2904M	AE
IC1705	VHiLB1880M/1E		I.C.	AQ
IC4420	VHiMM1031XM-1		MM1031XMR	AF
IC4422	VHiBA7603F/-1		BA7603F	AF
IC4460	VHiCXL1506M-1		CXL1506M	AT
IC4501	VHiCXA1203N-1		CXA1203N	AT
TRANSISTORS				
Q301, 302, 4341, 4426	VSXP6501///-1		Transistor	AB
Q304, 421, 4402	VSRN1104///-1		Transistor	AA
Q460, 463	VSRN1102///-1		Transistor	AA
Q461	VSUMG8/////-1		Transistor	AC
Q462, 903, 911, 913, 4340, 4381, 4462	VS2SC4738Y/-1		Transistor	AA
Q603	VSDTC323TK/-1		Transistor	AB
Q604, 712	VSRN4604///-1		Transistor	AB
Q701, 702, 703, 704, 906	VSXP4213///-1		Transistor	AB
Q715	VSXP4111///-1		Transistor	AB
Q901,	VS2SB1302S/-1		Transistor	AD

Ref. No.	Part No.	★	Description	Code
Q905	VS2SB1302S/-1		Transistor	AD
Q902	VS2SA1298Y/-1		Transistor	AB
Q904	VS2SB1121T/-1		Transistor	AC
Q907, 908, 909	VSFP101////-1		Transistor	AD
Q910	VSXP4113///-1		Transistor	AA
Q914	VS2SB1123T/-1		Transistor	AA
Q1301, 1302	VS2SA1037KQ-1		Transistor	AA
Q1303	VSDTC144EE/-1		Transistor	AA
Q1702	VSUMT1/////-1		Transistor	AC
Q4320, 4321, 4425, 4464, 4555	VSXP4601///-1		Transistor	AB
Q4360, 4427, 4463, 4483, 4552	VS2SA1832Y/-1		Transistor	AA
Q4401, 4557	VSXP1213///-1		Transistor	AB
Q4424	VS2SC3938//-1		Transistor	AC
Q4429, 4502	VSRN2104///-1		Transistor	AA
Q4430	VSRN1701///-1		Transistor	AB
Q4432, 4484	VSXP4401///-1		Transistor	AB
DIODES AND LED'S				
D701, 704, 4403	VHDMA132WK/-1		Diode	AA
D702	VHDMA132K//-1		Diode	AA
D703, 903, 904, 4421	VHDMA132WA/-1		Diode	AA
D901	VHDSFPB54//2E		Diode	AC
D902	VHDDA227///-1		Diode	AB
D4342	VHDMA147///-1		Diode	AB
D4423	VHDMA133///-1		Diode	AB
PACKAGED CIRCUITS				
X460	RCRSC0028TAZZ		Crystal	AK
X701	RCRSC0023TAZZ		Crystal	AG
X702	RCRSC0019TAZZ		Crystal	AG
COIL AND TRANSFORMERS				
CF901	RFiLC0044TAZZ		Filter	AE
FL463	RCiLV0057TAZZ		Coil	AE
FL467	RCiLV0056TAZZ		Coil	AE
FL701	RCiLB0007GEZZ		Oscillation Coil	AE
FL4463	RCiLV0060TAZZ		Coil	AH
FL4550	RCiLV0051TAZZ		Coil	AE
L301, 302, 303	VP-WM221K8R4N		Peaking 220µH 10%	AB
L304, 914	VP-NM100KR42N		Peaking 10µH 10%	AB
L401, 402, 4301, 4421, 4461, 4501	VP-NM330K1R4N		Peaking 33µH 10%	AB
L420, 4360	VP-1M151K110N		Peaking 150µH 10%	AC
L461	VP-1M680K6R9N		Peaking 68µH 10%	AC
L462	VP-1M330K4R2N		Peaking 33µH 10%	AC
L464, 4343	VP-1M181K130N		Peaking 180µH 10%	AC
L465	VP-JM822J101N		Peaking 8200µH 5%	AD
L469, 4340, 4381	VP-1M221K170N		Peaking 220µH 10%	AC
L603	VP-NM101K4R2N		Peaking 100µH 10%	AC
L701, 702, 1701	VP-NM220K1R0N		Peaking 22µH 10%	AB
L901, 909	RCiLP0164TAZZ		Coil	AE
L902	RCiLP0168TAZZ		Coil	AF
L903	VP-JM180KR27N		Peaking 18µH 10%	AD
L905	VP-JM220KR33N		Peaking 22µH 10%	AD
L907, 910	RCiLP0180TAZZ		Coil	AD
L908	VP-QM220KR64N		Peaking 22µH 10%	AC
L911	RCiLP0179TAZZ		Coil	AD
L912, 913	VP-NM470K2R0N		Peaking 47µH 10%	AB
L1301, 4345	VPABM100J2R6N		Peaking 10µH 5%	AC
L1302, 4320	VPABM101J160N		Peaking 100µH 5%	AC
L1703, 1704, 1705	VPAEM1R0KR35N		Peaking 1µH 10%	AB
L4321, 4341, 4382	VP-1M331J260N		Peaking 330µH 5%	AC
L4322	VPABM8R2J2R3N		Peaking 8.2µH 5%	AC
L4342	VPABM4R7J1R7N		Peaking 4.7µH 5%	AC
L4344	VPABM470J8R3N		Peaking 47µH 5%	AC
L4380	VP-VM821J260N		Peaking 820µH 5%	AC
L4384	VPABM6R8J2R0N		Peaking 6.8µH 5%	AC
L4460	VPABM220J4R1N		Peaking 22µH 5%	AC
L4462	VP-1M560K6R2N		Peaking 56µH 10%	AC
⚠ T901	RTRNZ0077TAZZ		Transformer	AF
CONTROLS				
R327, 328	RVR-M8036TAZZ		Variable Resistor	AC
R407, 414, 418, 430, 608,	RVR-M8032TAZZ		Variable Resistor	AC

Ref. No.	Part No.	★	Description	Code
R627	RVR-M8032TAZZ		Variable Resistor	AC
R431	RVR-M8031TAZZ		Variable Resistor	AC
R722, 723	RVR-M8034TAZZ		Variable Resistor	AC
R903, 4325, 4364	RVR-M8026TAZZ		Variable Resistor	AC
R943	RVR-M8023TAZZ		Variable Resistor	AC
R4497, 4499	RVR-M8025TAZZ		Variable Resistor	AC
CAPACITORS				
C301, 306, 405	VCSATA0JJ106M		10µF 6.3V Tantalum	AD
C303	VCSATE1AJ106M		10µF 10V Tantalum	AD
C304, 325, 327, 329, 331, 425, 701, 703, 705, 719, 720, 730, 906, 935, 1307, 1755, 4468	VCKYCY1CF104Z		0.1µF 16V Ceramic	AA
C307, 308, 309, 310, 312, 313, 485, 710, 917, 932, 934, 942, 949, 950, 1301, 1721, 1745	VCKYTV1EB104K		0.1µF 25V Ceramic	AB
C311, 314, 473, 1702, 1715, 1716	VCKYCY1EB103K		0.01µF 25V Ceramic	AA
C315, 316, 317, 318, 322, 323, 324,	VCKYCY1HF103Z		0.01µF 50V Ceramic	AA
C332, 402, 404, 406, 407, 408, 409, 410, 437, 463, 466, 469, 472, 477, 486, 606, 615, 626, 1701, 1704, 1707, 4302, 4303, 4320, 4326, 4346, 4347, 4348, 4350, 4360, 4422, 4423, 4424, 4425, 4432, 4438, 4461, 4463, 4466, 4467, 4477, 4502, 4509, 4511, 4552, 4554	VCKYCY1HF103Z		0.01µF 50V Ceramic	AA
C320, 620	VCKYCY1CF473Z		0.047µF 16V Ceramic	AA
C326, 328, 4508	VCSATA1AJ475M		4.7µF 10V Tantalum	AC
C401, 403, 476, 607, 4301, 4431	VCEAPF0JW476M		47µF 6.3V Electrolytic	AB
C420, 461, 4470	VCSAPD0JJ335M		3.3µF 6.3V Tantalum	AC
C421	VCEAPF1VW475M		4.7µF 35V Electrolytic	AB
C422, 426, 1748, 4506	VCSAPD1CJ105M		1.0µF 16V Tantalum	AC
C423	VCEAPF1CW106M		10µF 16V Electrolytic	AB
C424, 616	VCEAPF0GW476M		47µF 4.0V Electrolytic	AB

Ref. No.	Part No.	★	Description	Code
C428	VCCCTV1HH331J		330pF 50V Ceramic	AA
C429, 609, 630, 640, 644, 717, 905, 953, 1752, 1753, 1754, 4429, 4430, 4433, 4435, 4465, 4499, 4512	VCKYTV1CF105Z		1.0µF 16V Ceramic	AB
C430, 945	VCCCCY1HH181J		180pF 50V Ceramic	AA
C432, 4551	VCCCCY1HH6R0D		6.0pF 50V Ceramic	AA
C434, 480, 4389	VCCCCY1HH121J		120pF 50V Ceramic	AA
C435, 4349, 4489, 4504	VCCCCY1HH100D		10pF 50V Ceramic	AA
C438	VCCCCY1HH5R0C		5.0pF 50V Ceramic	AA
C439	VCCCCY1HH1R0C		1.0pF 50V Ceramic	AA
C464, 475, 625, 4488	VCCCCY1HH560J		56pF 50V Ceramic	AA
C465, 4471	VCCCCY1HH220J		22pF 50V Ceramic	AA
C467	VCSAPD1VJ154M		0.15µF 35V Tantalum	AC
C470	VCCCCY1HH8R0D		8.0pF 50V Ceramic	AA
C471, 483, 931, 933	VCKYCY1EB223K		0.022µF 25V Ceramic	AA
C474	VCKYCY1CB473K		0.047µF 16V Ceramic	AA
C479	VCSAPD0JJ225M		2.2µF 6.3V Tantalum	AD
C481, 1712	VCKYCY1HB472K		4700pF 50V Ceramic	AA
C482	VCSAPD1EJ474M		0.47µF 25V Tantalum	AD
C484	VCSAPD1CJ684M		0.68µF 16V Tantalum	AC
C610, 612, 638, 724	VCEAPH1EW475M		4.7µF 25V Electrolytic	AB
C611	VCEAPF0GW336M		33µF 4.0V Electrolytic	AB
C613, 636, 702, 704, 707, 1703, 1750, 1751	VCEAPH1CW106M		10µF 16V Electrolytic	AB
C619,	VCKYCY1CF333Z		0.033µF 16V Ceramic	AA
C621	VCKYCY1CF333Z		0.033µF 16V Ceramic	AA
C624, 1705, 4380	VCKYCY1HB152K		1500pF 50V Ceramic	AA
C627, 628, 635	VCKYCY1HB222K		2200pF 50V Ceramic	AA
C633, 634	VCEAPH0JW226M		22µF 6.3V Electrolytic	AB
C637	VCEAPH1HW105M		1.0µF 50V Electrolytic	AB
C639	VCCCCY1HH221J		220pF 50V Ceramic	AA
C642	VCEAPF1HW225M		2.2µF 50V Electrolytic	AB
C643	VCEAPH1HW225M		2.2µF 50V Electrolytic	AB
C706	VCEAPT1CN107M		100µF 16V Electrolytic	AD
C709	VCKYTQ1CB334K		0.33µF 16V Ceramic	AB
C711, 712	VCCCCY1HH180J		18pF 50V Ceramic	AA
C714, 721, 4345	VCCCCY1HH271J		270pF 50V Ceramic	AA
C715, 716, 726, 727, 728, 918, 922, 923, 924, 925, 926, 927, 928, 929, 943, 1308, 1722, 4464, 4469, 4510	VCKYCY1HB102K		1000pF 50V Ceramic	AA
C722, 4323	VCCCCY1HH120J		12pF 50V Ceramic	AA
C723, 4327	VCCCCY1HH150J		15pF 50V Ceramic	AA
C725, 1706, 1710, 1711, 1724, 1741	VCKYCY1EF104Z		0.1µF 25V Ceramic	AA
C901	VCEAPT1CN226M		22µF 16V Electrolytic	AC
C902	RC-EZ0117GEZZ		Capacitor	AE
C903, 904, 911, 913, 914, 915, 916	VCEAPT1AN107M		100µF 10V Electrolytic	AD
C907	VCEAPF0JW226M		22µF 6.3V Electrolytic	AB
C908, 912	VCEAPT0JN107M		100µF 6.3V Electrolytic	AD
C910	VCKYTV1HB223K		0.022µF 50V Ceramic	AB
C920, 1720	VCKYCY1HB682K		6800pF 50V Ceramic	AA
C921	VCKYTV1HB153K		0.015µF 50V Ceramic	AA
C936, 4505	VCCCCY1HH331J		330pF 50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
C937, 938, 4513	VCCCCY1HH471J		470pF 50V Ceramic	AA
C944	VCKYCY1HB562K		5600pF 50V Ceramic	AA
C946, 4351, 4361	VCCCCY1HH820J		82pF 50V Ceramic	AA
C947	VCEAPT1EN336M		33µF 25V Electrolytic	AC
C948	VCEAPT1EN106M		10µF 25V Electrolytic	AC
C1302, 1304, 1305, 4322, 4478, 4503	VCCCCY1HH101J		100pF 50V Ceramic	AA
C1303, 4324	VCCCCY1HH151J		150pF 50V Ceramic	AA
C1708, 1709	VCKYCY1HB471K		470pF 50V Ceramic	AA
C1726	VCFYEC1CM104J		0.1µF 16V	AD
C1740	VCKYTV1EB683K		0.068µF 25V Ceramic	AB
C1742, 1743, 1744	VCKYCY1EB153K		0.015µF 25V Ceramic	AA
C1749	VCKYTV1EB473K		0.047µF 25V Ceramic	AB
C1760, 1761, 1762	VCKYCY1HF333Z		0.033µF 50V Ceramic	AA
C4321	VCCCCY1HH470J		47pF 50V Ceramic	AA
C4328, 4340, 4381	VCCCCY1HH390J		39pF 50V Ceramic	AA
C4341, 4382	VCCCCY1HH330J		33pF 50V Ceramic	AA
C4344	VCCCCY1HH680J		68pF 50V Ceramic	AA
C4420, 4421	VCEAPF0GW227M		220µF 4.0V Electrolytic	AB
C4436	VCCCCY1HH270J		27pF 50V Ceramic	AA
C4460, 4462	VCSAPD1AJ155M		1.5µF 10V Tantalum	AD
C4501	VCSATA1AJ335M		3.3µF 10V Tantalum	AC

RESISTORS

Ref. No.	Part No.	★	Description	Code
R301, 1742, 1743, 1744	VRS-CY1JF683J		68k 0.063W 5% Metal Oxide	AA
R302, 306, 314, 703, 726, 765, 769, 1729, 4326, 4442	VRS-CY1JF473J		47k 0.063W 5% Metal Oxide	AA
R303, 312, 610, 713, 724, 938,	VRS-CY1JF223J		22k 0.063W 5% Metal Oxide	AA
R1305, 1707, 1716, 1717, 4352, 4353	VRS-CY1JF223J		22k 0.063W 5% Metal Oxide	AA
R304, 313	VRS-CY1JF202J		2.0k 0.063W 5% Metal Oxide	AA
R305, 310, 1746, 4417, 4492	VRS-CY1JF563J		56k 0.063W 5% Metal Oxide	AA
R307, 308, 460, 499, 607, 616, 747, 964, 968, 1798, 4365, 4413, 4462, 4464, 4469, 4590, 4598	VRS-CY1JF000J		00 0.063W 5% Metal Oxide	AA
R309, 467, 901	VRS-CY1JF153J		15k 0.063W 5% Metal Oxide	AA
R311, 331	VRS-CY1JF3R3J		3.3 0.063W 5% Metal Oxide	AA
R315, 4468, 4476	VRS-CY1JF182J		1.8k 0.063W 5% Metal Oxide	AA
R316, 330, 764, 4329	VRS-CY1JF822J		8.2k 0.063W 5% Metal Oxide	AA
R319, 321, 402, 405, 420, 464, 472, 603, 715, 717, 759, 908, 963, 4322, 4340, 4341, 4344, 4351, 4380, 4387, 4428, 4429, 4430, 4433, 4434, 4467,	VRS-CY1JF102J		1.0k 0.063W 5% Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R4474, 4477, 4478, 4490, 4493, 4494, 4495, 4510, 4514, 4551, 4555, 4556, 4557, 4560, 4562	VRS - CY1JF102J		1.0k 0.063W 5% Metal Oxide	AA
R320, 323, 324, 423, 1701, 4403, 4404, 4475, 4489, 4498	VRS - CY1JF222J		2.2k 0.063W 5% Metal Oxide	AA
R322, 1304, 4360, 4422	VRS - CY1JF221J		220 0.063W 5% Metal Oxide	AA
R325, 413, 426, 932, 966, 4335, 4427, 4431, 4488	VRS - CY1JF332J		3.3k 0.063W 5% Metal Oxide	AA
R329, 332, 4418	VRS - CY1JF681J		680 0.063W 5% Metal Oxide	AA
R333, 411, 422, 424, 710, 741, 748, 904, 936, 937, 4405, 4425, 4459	VRS - CY1JF472J		4.7k 0.063W 5% Metal Oxide	AA
R401	VRS - CA1JF683J		68k 0.063W 5% Metal Oxide	AA
R406, 473, 961, 4349, 4354, 4441	VRS - CY1JF272J		2.7k 0.063W 5% Metal Oxide	AA
R410, 498, 614, 618, 628, 704,	VRS - CY1JF103J		10k 0.063W 5% Metal Oxide	AA
R705, 721, 728, 730, 732, 733, 735, 736, 761, 950, 967, 1713, 1725, 1728, 1741, 1760, 4320, 4321, 4328, 4487, 4501, 4504, 4565	VRS - CY1JF103J		10k 0.063W 5% Metal Oxide (VL-S6S/H/S68E) (VL-S6X)	AA
R412, 419, 468	VRS - CY1JF183J		18k 0.063W 5% Metal Oxide	AA
R415, 725	VRS - CY1JF123J		12k 0.063W 5% Metal Oxide	AA
R417, 425, 428, 615, 933, 939, 962, 1714, 1745	VRS - CY1JF682J		6.8k 0.063W 5% Metal Oxide	AA
R421, 799, 1303, 4432	VRS - CY1JF271J		270 0.063W 5% Metal Oxide	AA
R427	VRS - CY1JF302J		3.0k 0.063W 5% Metal Oxide	AA
R429, 4350, 4505	VRS - CY1JF562J		5.6k 0.063W 5% Metal Oxide	AA
R432	VRS - CY1JF163J		16k 0.063W 5% Metal Oxide	AA
R433, 940, 1705, 4447, 4460	VRS - CY1JF105J		1.0M 0.063W 5% Metal Oxide	AA
R434	VRS - CY1JF151J		150 0.063W 5% Metal Oxide	AA
R466	VRS - CY1JF512J		5.1k 0.063W 5% Metal Oxide	AA
R490	VRS - TQ2BD000J		00 1/8W 5% Metal Oxide	AA
R605, 617, 906, 934, 1306, 4491, 4558, 4559	VRS - CY1JF333J		33k 0.063W 5% Metal Oxide	AA
R609	VRS - CY1JF133F		13k 0.063W 1% Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R611	VRS-CY1JF155J		1.5M 0.063W 5% Metal Oxide	AA
R612, 625, 1302, 1751, 4323, 4324, 4333, 4348, 4479	VRS-CY1JF561J		560 0.063W 5% Metal Oxide	AA
R613, 706, 930, 935, 949, 4356, 4566	VRS-CY1JF152J		1.5k 0.063W 5% Metal Oxide	AA
R624	VRS-CY1JF224J		220k 0.063W 5% Metal Oxide	AA
R701	VRS-CB1JF102J		1.0k 0.063W 5% Metal Oxide	AA
R708, 752, 753, 4334	VRS-CY1JF101J		100 0.063W 5% Metal Oxide	AA
R709, 754, 924, 4471	VRS-CY1JF334J		330k 0.063W 5% Metal Oxide	AA
R711, 738, 952, 1708, 4503, 4506, 4516, 4517, 4518	VRS-CY1JF104J		100k 0.063W 5% Metal Oxide	AA
R712	VRS-CA1JF223J		22k 0.063W 5% Metal Oxide	AA
R716, 729, 737, 742, 743, 758, 1702	VRS-CA1JF102J		1.0k 0.063W 5% Metal Oxide	AA
R718, 755, 762, 1727	VRS-CA1JF103J		10k 0.063W 5% Metal Oxide	AA
R719	VRS-CB1JF103J		10k 0.063W 5% Metal Oxide	AA
R727	VRS-CA1JF822J		8.2k 0.063W 5% Metal Oxide	AA
R731, 4466	VRS-CY1JF823J		82k 0.063W 5% Metal Oxide	AA
R740	VRS-CY1JF684J		680k 0.063W 5% Metal Oxide	AA
R749, 750	VRS-CY1JF332F		3.3k 0.063W 1% Metal Oxide	AA
R770, 4458	VRS-CY1JF392F		3.9k 0.063W 1% Metal Oxide	AA
R771, 772	VRS-CY1JF682F		6.8k 0.063W 1% Metal Oxide	AA
R905	VRS-TV1JD821J		820 0.063W 5% Metal Oxide	AA
R907, 4402	VRS-CY1JF392J		3.9k 0.063W 5% Metal Oxide	AA
R909	VRS-TV1JD2R2J		2.2 0.063W 5% Metal Oxide	AA
R910, 927	VRS-TV1JD471J		470 0.063W 5% Metal Oxide	AA
R911	VRN-CY1JF153D		15k 0.063W 0.5% Metal Film	AA
R912	VRN-CY1JF912D		9.1k 0.063W 0.5% Metal Film	AA
R915	VRS-CY1JF824J		820k 0.063W 5% Metal Oxide	AA
R916, 942	VRS-CY1JF474J		470k 0.063W 5% Metal Oxide	AA
R917, 918	VRN-CY1JF472D		4.7k 0.063W 0.5% Metal Film	AA
R919, 920, 925, 941	VRS-CY1JF274J		270k 0.063W 5% Metal Oxide	AA
R921, 960	VRS-CA1JF472J		4.7k 0.063W 5% Metal Oxide	AA
R923, 948	VRS-CY1JF154J		150k 0.063W 5% Metal Oxide	AA
R926	VRS-TV1JD101J		100 0.063W 5% Metal Oxide	AA
R928, 929	VRS-TV1JD271J		270 0.063W 5% Metal Oxide	AA
R944	VRS-CY1JF242F		2.4k 0.063W 1% Metal Oxide	AA
R945	VRS-CY1JF472F		4.7k 0.063W 1% Metal Oxide	AA
R946	VRS-CY1JF273F		27k 0.063W 1% Metal Oxide	AA
R951	VRS-TV1JD681J		680 0.063W 5% Metal Oxide	AA
R1301	VRS-CY1JF220J		22 0.063W 5% Metal Oxide	AA
R1712, 1747	VRS-CY1JF394J		390k 0.063W 5% Metal Oxide	AA
R1724	VRS-CA1JF104J		100k 0.063W 5% Metal Oxide	AA
R1748, 4448	VRS-CY1JF393J		39k 0.063W 5% Metal Oxide	AA
R1752, 1753	VRS-TV1JD1R0J		1.0 0.063W 5% Metal Oxide	AA
R4327, 4347, 4553	VRS-CY1JF331J		330 0.063W 5% Metal Oxide	AA
R4331, 4332, 4346	VRS-CY1JF471J		470 0.063W 5% Metal Oxide	AA
R4343, 4438, 4597	VRS-CY1JF821J		820 0.063W 5% Metal Oxide	AA
R4355, 4473	VRS-CY1JF391J		390 0.063W 5% Metal Oxide	AA
R4421	VRS-CY1JF750J		75 0.063W 5% Metal Oxide	AA
R4424, 4426	VRS-CY1JF122J		1.2k 0.063W 5% Metal Oxide	AA
R4435	VRS-CY1JF273J		27k 0.063W 5% Metal Oxide	AA
R4450, 4455, 4456	VRS-CY1JF152F		1.5k 0.063W 1% Metal Oxide	AA
R4451	VRS-CY1JF162F		1.6k 0.063W 1% Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R4472	VRS-CY1JF564J		560k 0.063W 5% Metal Oxide	AA
	MISCELLANEOUS PARTS			
	QCNW-1232TAZZ		Connecting Cord	AA
	QSW-S0102TAZZ		Switch	AD
	QTANJ0030TAZZ		Terminal	AH
⚠F901	QFS-L3124TAZZ		Fuse, 3.15A	AE
P702	QPLGN0463TAZZ		Plug	AC
P703	QPLGN0764TAZZ		Plug	AD
P901	QPLGN0265TAZZ		Plug	AD
SC301	QSOCN0948TAZZ		Socket	AD
SC701	QSOCN2247TAZZ		Socket	AF
SC702	QSOCN1236TAZZ		Socket	AD
SC4401	QSOCN0853TAZZ		Socket	AE
	CABINET PARTS			
TP301, 401, 402, 420, 461, 462, 463, 601, 603, 606, 701, 703, 704, 705, 706, 707, 902, 903, 904, 906, 907, 4320, 4321, 4360, 4420, 4421	QLUGP0111TAFW		Lug	AA

DUNTK4152HE00 MECHA INTERCONNECTION PWB

Ref. No.	Part No.	★	Description	Code
	INTEGRATED CIRCUITS			
IC1703	VHiNJM2902V-1		NJM2902V	AD
IC1704	VHiMPC1727V-1		I.C.	AK
	TRANSISTORS			
Q1701	VSRN1101///-1		Transistor	AA
Q1703	VSXP6501///-1		Transistor	AB
Q1704	VSXN4501///-1		Transistor	AB
Q1708	VS2SB1121T/-1		Transistor	AC
Q1710	VS2SD2216//-1		Transistor	AA
	CAPACITORS			
C1730	VCKYTV1CF105Z		1.0µF 16V Ceramic	AB
C1771, 1772, 1776	VCKYCY1HF103Z		0.01µF 50V Ceramic	AA
C1773, 1774, 1783, 1784	VCEAPH1CW106M		10µF 16V Electrolytic	AB
C1777	VCCCCY1HH330J		33pF 50V Ceramic	AA
C1778	VCKYCY1EF104Z		0.1µF 25V Ceramic	AA
	RESISTORS			
R1730	VRS-CY1JF183J		18k 0.063W 5% Metal Oxide	AA
R1731	VRS-CY1JF154J		150k 0.063W 5% Metal Oxide	AA
R1732	VRS-CY1JF682J		6.8k 0.063W 5% Metal Oxide	AA
R1733	VRS-CY1JF273F		27k 0.063W 1% Metal Oxide	AA
R1764	VRS-CY1JF124J		120k 0.063W 5% Metal Oxide	AA
R1765	VRS-CA1JF222J		2.2k 0.063W 5% Metal Oxide	AA
R1767	VRS-CY1JF823J		82k 0.063W 5% Metal Oxide	AA
R1769, 1772	VRS-CA1JF104J		100k 0.063W 5% Metal Oxide	AA
R1770, 1773	VRS-CY1JF102J		1.0k 0.063W 5% Metal Oxide	AA
R1771	VRS-TV1JD331J		330 0.063W 5% Metal Oxide	AA
R1774, 1783, 1784	VRS-CY1JF104J		100k 0.063W 5% Metal Oxide	AA
R1780	VRS-CY1JF101J		100 0.063W 5% Metal Oxide	AA
R1782, 1785	VRS-CA1JF103J		10k 0.063W 5% Metal Oxide	AA
R1786	VRS-CY1JF103J		10k 0.063W 5% Metal Oxide	AA
	MISCELLANEOUS PARTS			
SC1701	QSOCN0648TAZZ		Socket	AE
SC1703	QSOCN0758TAZZ		Socket	AE
SC1704	QSOCN1563TAZZ		Socket	AG
SC1705	QSOCN0658TAZZ		Socket	AE

Ref. No.	Part No.	★	Description	Code
DUNTK4153HE00 CCD PWB				
TRANSISTORS				
Q1001	VS2SK160///-1		Transistor	AD
CAPACITORS				
C1001	VCEAPH1HW225M		2.2µF 50V Electrolytic	AB
C1002, 1004, 1005, 1007	VCKYCY1HF103Z		0.01µF 50V Ceramic	AA
C1003, 1006, 1008	VCEAPH1VW335M		3.3µF 35V Electrolytic	AB
RESISTORS				
R1001	VRS-CY1JF220J		22 0.063W 5% Metal Oxide	AA
R1002	VRS-CY1JF332J		3.3k 0.063W 5% Metal Oxide	AA
R1003	VRS-CY1JF822J		8.2k 0.063W 5% Metal Oxide	AA
MISCELLANEOUS PARTS				
SC1001	QSOCN1447TAZZ		Socket	AE
QSW-Z0056TAZZ CAMERA OPERATION PWB				
RESISTORS				
R2750	VRD-RA2BE103J		10k 0.2W 5% Carbon	AA
R2752	VRD-RA2BE562J		5.6k 0.2W 5% Carbon	AA
R2753	VRD-RA2BE332J		3.3k 0.2W 5% Carbon	AA
R2754	VRD-RA2BE222J		2.2k 0.2W 5% Carbon	AA
R2755	VRD-RA2BE152J		1.5k 0.2W 5% Carbon	AA
R2756	VRD-RA2BE122J		1.2k 0.2W 5% Carbon	AA
MISCELLANEOUS PARTS				
P2751	QCNCM0650TAZZ		CON 1	AD
SC2751	QSOCN1240TAZZ		CON 2	AF
SW2750, 2751, 2753, 2754, 2757, 2758	QSW-K0019TAZZ		Low Sound Push SW	AC
SW2755, 2756	QSW-K0018TAZZ		Normal Push SW	AC
SW2759	QSW-S0104TAZZ		Self Return Slide SW	AE
SW2760	QSW-S0105TAZZ		2 Posi. Slide SW	AF
SW2761	QSW-S0106TAZZ		3 Posi. Slide SW	AF

Ref. No.	Part No.	★	Description	Code
QSW-Z0058TAZZ MIC AMP/ LI HOLDER/ START · STOP PWB				
INTEGRATED CIRCUIT				
IC6601	VHiXRA4558/-1		OP. AMP IC 1	AG
TRANSISTOR				
Q6601	VS2SC4738Y/-1		Transistor Q1	AA
CAPACITORS				
C6601	VCKYTV1CF105Z		1µF 16V Ceramic	AB
C6602	VCKYTV1HB102K		1000pF 50V Ceramic	AA
C6603	VCCCTV1HH6R0D		6pF 50V Ceramic	AA
C6604	VCKYTV1CF105Z		1µF 16V Ceramic	AB
C6605	RC-EZ0244TAZZ		22µF 6.3V Electrolytic	AB
RESISTORS				
R6601	VRS-TQ2BD103J		10k 0.1W 5% Metal Oxide	AA
R6602	VRS-TQ2BD153J		15k 0.1W 5% Metal Oxide	AA
R6603	VRS-TQ2BD474J		470k 0.1W 5% Metal Oxide	AA
R6604	VRS-TQ2BD273J		27k 0.1W 5% Metal Oxide	AA
R6605	VRS-TQ2BD103J		10k 0.1W 5% Metal Oxide	AA
R6606	VRS-TQ2BD000J		00 0.1W 5% Metal Oxide	AA
MISCELLANEOUS PARTS				
E6601	LHLDB1008GEZZ		Li Battery Holder	AF
P6601	QPLGN0364TAZZ		Plug P1	AC
P6602	QPLGN0764TAZZ		Plug P2	AD
SW6601	QSW-K0082GEZZ		S/S SW	AD
RRMCK0002TAZZ R/C RECEIVER PWB				
DIODE				
D705	RH-PX0069TAZZ		Tally LED	AC
MISCELLANEOUS PARTS				
RMC701	RRMCU0004TAZZ		Remote Receiver	AL
SC704	QCNCW0651TAZZ		Connector	AD

Ref. No.	Part No.	★	Description	Code
DUNTK2448PM00 VCR SUB PWB				
TRANSISTOR				
Q1789	VSDTC144EE/-1		Transistor	AA
DIODE				
D1789	VHDMA132K//-1		Diode	AA

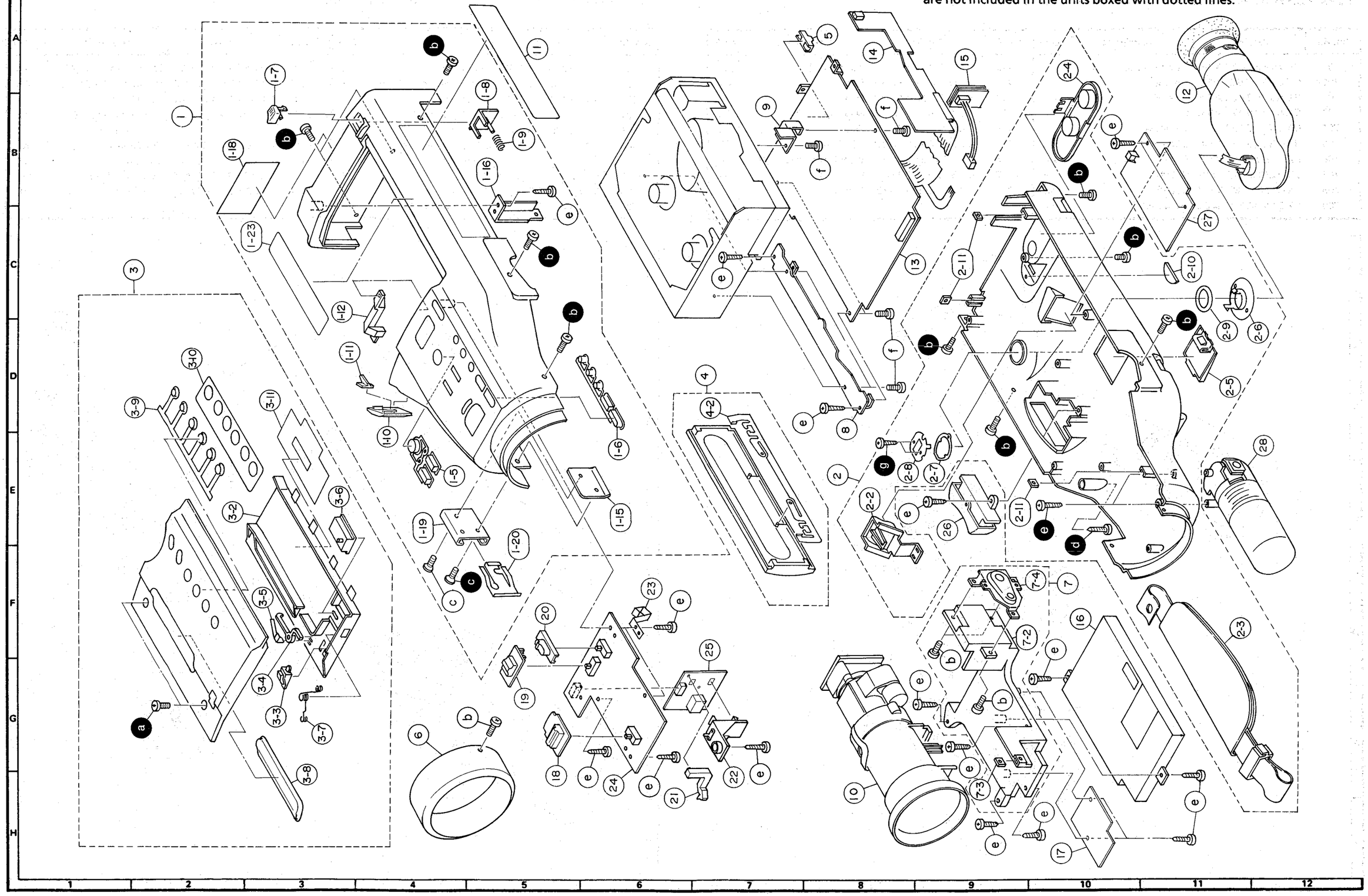
Ref. No.	Part No.	★	Description	Code
CAPACITOR				
C1789	VCSATE0JJ226M		22µF 6.3V Tantalum	AD
RESISTOR				
R1789	VRS-CY1JF472J		4.7k 0.063W 5% Metal Oxide	AA

10-2. CABINET PARTS LIST

Ref. No.	Part No.	Description	Code
1	DCABA6094TA01	Ass'y Cabinet-A	AX
1-5	JBTN-0212TASA	Button, Camera Operation-A	AC
1-6	JBTN-0213TASA	Button, Camera Operation-B	AD
1-7	JKNBP0090TASA	Knob, Battery Eject	AB
1-8	LHLDB1014TAZZ	Holder, Battery Latch	AB
1-9	MSPRC0058TAFW	Spring, Battery Latch	AB
1-10	GCOVA1283TAZZ	Cover, IR Sensor	AD
1-11	GCOVA1284TAZZ	Cover, Tally	AB
1-12	PGiDM0013TAZZ	Guide, Infrared Ray-A	AB
1-15	LANGK0287TAFW	Angle, Cabinet Holder-A	AC
1-16	LANGK0288TAFW	Angle, Cabinet Holder-B	AC
1-18	TLABH0155TAZZ	Label, Caution (about Battery)	AB
1-19	GDAi-3040TA00	Shoe	AC
1-20	MSPRP0078TA00	Spring, Shoe	AD
1-23	TLABH0164TAZZ	Label, Caution (about R/C)	AB
2	DCABB6091TA01	Ass'y, Cabinet-B	AX
2-2	JBTN-0214TASA	Button, S/S	AB
2-3	UBNDT0064TASA	Strap, Grip	AN
2-4	GCOVA1281TASA	Cover, AV Terminal	AC
2-5	GFTAB1031TASA	Cover, Lithium Battery	AC
2-6	LHLDZ1198TAZZ	Holder, Viewfinder Fixing	AB
2-7	MSPRP0105TAFJ	Spring, Viewfinder Rotating	AB
2-8	LANGK0290TAFW	Angle, Viewfinder Fixing	AB
2-9	PSPAG0058TAZZ	O-Ring	AB
2-10	HiNDP0164TASA	Indicator, SP/LP	AC
2-11	LX-NZ0076TAFW	Nut, Square	AB
3	CFTAC1104TA01	Ass'y, Cassette Cover (VL-S6S/H/X)	AX
3	CFTAC1105TA01	Ass'y, Cassette Cover (VL-S68E)	AX
3-2	LHLDZ1195TAZZ	Holder, R/C	AE
3-3	JKNBP0086TASA	Knob, R/C Release	AB
3-4	LHLDZ1196TAZZ	Holder, R/C Latch	AB
3-5	MSPRP0103TAFJ	Spring, R/C Latch	AB
3-6	MSLiP0001TAZZ	Slider, R/C Release	AC
3-7	MSPRD0020TAFJ	Spring, R/C Release	AB
3-8	GMADC0042TASA	Window, Cassette Cover	AH
3-9	JBTN-0211TASA	Button, R/C Operation	AD
3-10	LHLDZ1197TAZZ	Holder, R/C Operation	AC
3-11	PSLDM9039TAZZ	Slide Sheet	AF
4	CCOVA1280TA01	Ass'y, Top Cover	AK
4-2	MSPRP0104TAFJ	Spring, Top Cover	AC
5	JKNBK0117TASA	Knob, SP/LP	AB
6	GCOVA1282TASA	Cover, Lens	AH
7	CDAi-3047TA01	Ass'y, Tripod Mount	AK
7-2	LHLDZ1199TAZZ	Holder, Lens	AE
7-3	LX-NZ0076TAFW	Nut, Square	AB
7-4	GDAi-3047TAFW	Tripod Mount	AF
8	LANGK0285TAFW	Angle, Mechanism Holding-A	AD
9	LANGK0286TAFW	Angle, Mechanism Holding-B	AC
10	CLNSA0111TA01	Ass'y, Lens Unit	BX
11	TLABM1455TAZZ	Label, Model (VL-S6S)	AB
11	TLABM1456TAZZ	Label, Model (VL-S6H)	AB
11	TLABM1457TAZZ	Label, Model (VL-S6X)	AB
11	TLABM1458TAZZ	Label, Model (VL-S68E)	AC
12	DMON-6030QA01	Ass'y, Viewfinder	CH
13	DUNTK4137HE02	VCR PWB Ass'y (VL-S6S/H/S68E)	—
13	DUNTK4137HE03	VCR PWB Ass'y (VL-S6X)	—
14	DUNTK4152HE00	Mecha Interconnection PWB Ass'y	—
15	QTANZ0048TAZZ	Terminal, Battery	AH
16	DUNTK2383PM00	Camera PWB Ass'y	—
17	DUNTK2442PM00	Auto Focus PWB Ass'y	—
18	JKNBP0087TASA	Knob, Full Auto	AD
19	JKNBP0088TASA	Knob, Power	AB
20	JKNBP0089TASA	Knob, Eject	AB
21	PGiDM0014TAZZ	Guide, Infrared Ray-B	AB
22	LHLDF1024TAZZ	Holder, R/C Receiver	AC
23	QEARP0144TAFW	Earth Spring	AB
24	QSW-Z0056TAZZ	Camera Operation Unit	AU
25	RRMCK0002TAZZ	R/C Receiver Unit	AP
26	QSW-Z0057TAZZ	Zoom Switch Unit	AL
27	QSW-Z0058TAZZ	Mic Amp/LI Holder/SS Unit	AS
28	RMiCC0050TAZZ	Microphone Unit	AV
a	LX-BZ0178TAFF	Screw	AA
b	XiPSF20P04000	Screw (2.0×4)	AA
c	XSSSF20P06000	Screw (2.0×6)	AA
d	LX-HZ0012TAFF	Screw	AA
e	XJPSD20P06000	Screw (2.0×6)	AA
f	XiPSC20P04000	Screw (2.0×4)	AA
g	XJPSD20P08000	Screw (2.0×8)	AA

10-3. CABINET EXPLODED VIEW

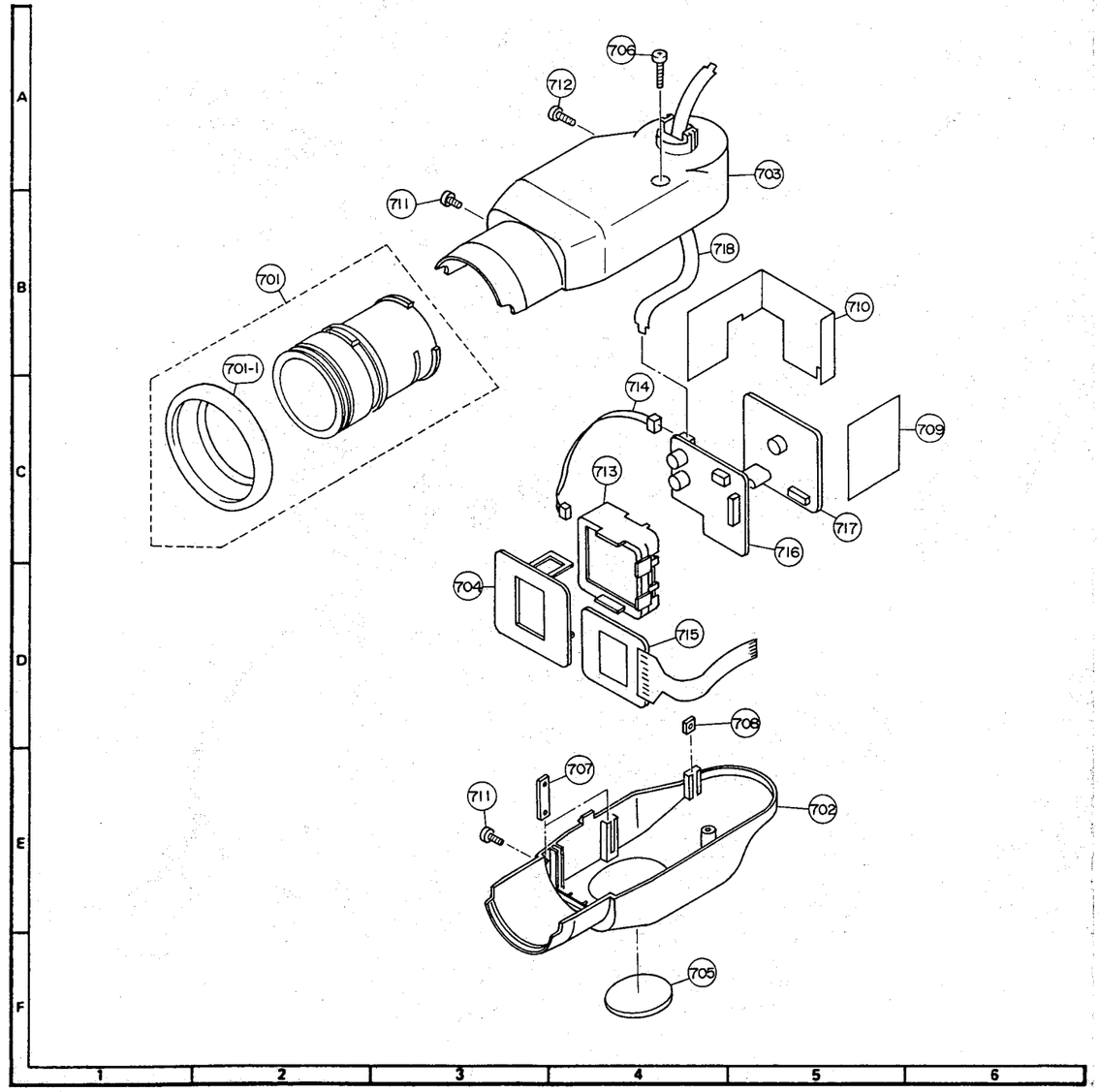
Screws with their Ref. Nos. in white on black background are not included in the units boxed with dotted lines.



VL-S6S/H/X/S68E

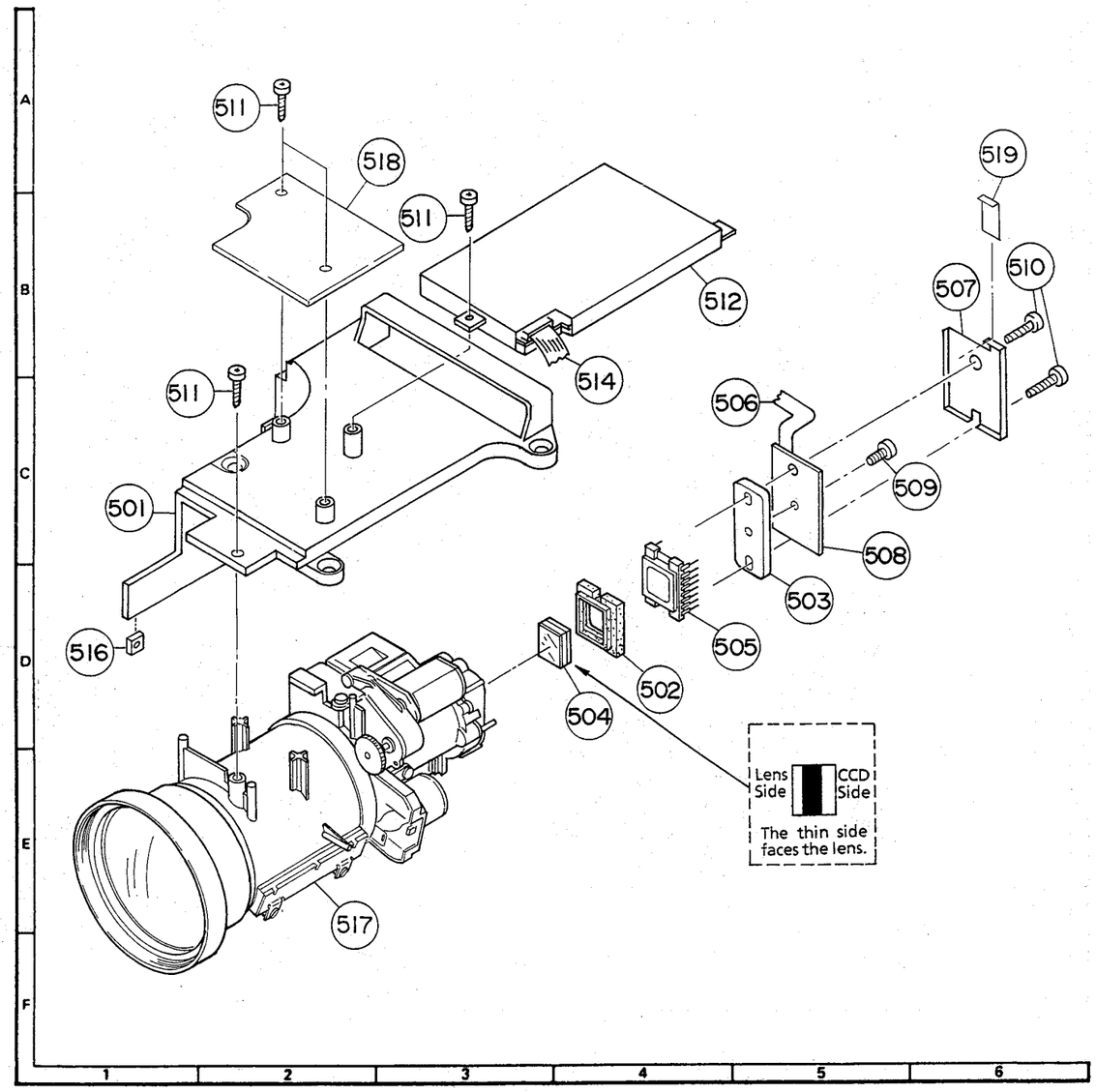
10-4. VIEWFINDER PARTS LIST/EXPLODED VIEW

Ref. No.	Part No.	Description	Code
701	CLNSV0002TA03	Viewfinder Lens Unit	AT
701-1	GCOVH7063TASB	Eye Cap	AH
702	GCASP0046TASA	Case (R)	AH
703	GCASP0047TASA	Case (L)	AH
704	GMADi0013TA00	LCD Mask	AD
705	HBDGS0055TASA	LCD Badge	AE
706	LX-HZ0011TAFF	Screw	AA
707	LX-NZ0074TAFW	Nut (A)	AB
708	LX-NZ0076TAFW	Nut (B)	AB
709	PZETV0274TAZZ	Insulator (A)	AC
710	PZETV0275TAZZ	Insulator (B)	AB
711	XiPSF17P03000	Screw	AA
712	XiPSF20P04000	Screw	AA
713	KLMPV0008TAZZ	Back Light Unit	BC
714	QCNW-1147TAZZ	Connecting Cord	AG
715	RLCDV0006TAZZ	LCD Panel	CB
716	DUNTK2396PM00	Viewfinder Driver PWB	—
717	DUNTK2395PM00	Viewfinder Y/C PWB	—
718	QPWBH2401TAZZ	Flexible Cord	



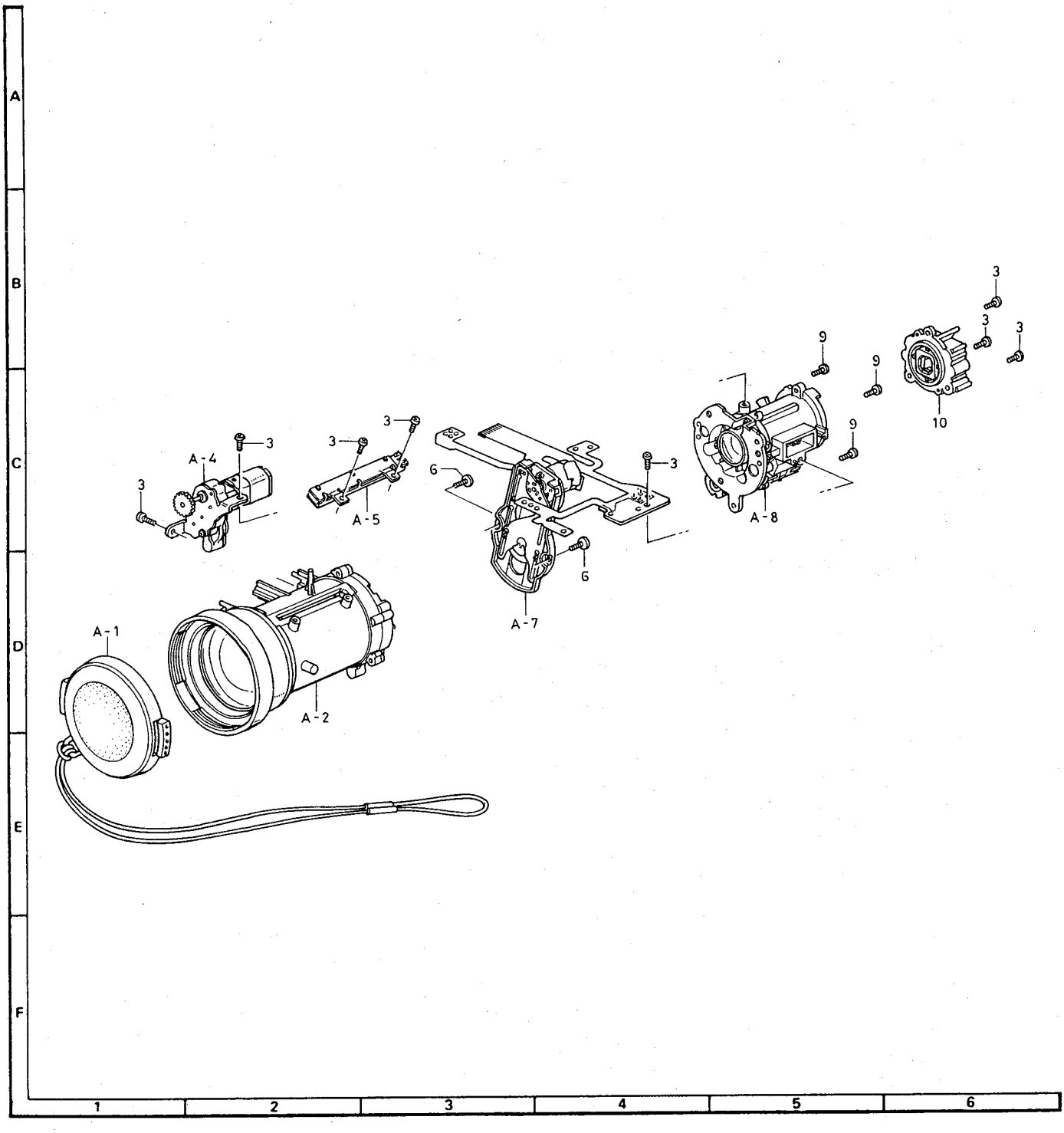
10-5. CAMERA UNIT PARTS LIST/EXPLODED VIEW

Ref. No.	Part No.	Description	Code
501	LHLDZ1199TAZZ	Lens Holder	AE
502	PCOVM8013TA00	Dust Protection Rubber	AF
503	LANGK0272TAFW	Sensor Spacer	AB
504	PFiLW0056TAZZ	Crystal, Optical L.P.F.	AX
505	VHiLZ2323A/-1	CCD Sensor	BN
506	QPWBH2385TAZZ	F.P.C., Sensor PWB-Main PWB	AG
507	PSLDM3174TAFW	Shield Case	AB
508	DUNTK4153HE00	CCD PWB	—
509	XBPSD20P03000	Screw, Pan Head (M2×3)	AA
510	XEBSD20P06000	Screw, Bind Head (2.0×6)	AA
511	XJPSD20P06000	Screw, Pan Head (2.0×6)	AA
512	DUNTK2383PM00	Camera PWB	—
514	QCNW-1204TAZZ	F.P.C., Camera PWB-Lens Drive Unit	AF
516	LX-NZ0076TAFW	Nut, Square	AB
517	CLNSA0111TA01	Lens Unit	BX
518	DUNTK2448PM00	Auto Focus PWB	—
519	PSLDM3181TAZZ	Shield Sheet	AB



10-6. LENS UNIT PARTS LIST/EXPLODED VIEW

Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
	CLNSA0111TA01	Ass'y Lens Unit	BX	6	99JBTP144035	Screw	AA
A-1	99JZSE514822	Lens Cap Ass'y	AM	A-7	99JZSEC514893	Iris Ass'y	BA
A-2	99JZSE514830	Zoom Lens Ass'y	BU	A-8	99JZSEB514882	M Lens Ass'y	BH
3	99JBTP174030	Screw	AA	9	99JBTP174530	Screw	AA
A-4	99JZSEB514874	Power Zoom Motor Ass'y	AY	10	99JZSE514812	Sensor Holder	AE
A-5	99JZSEB514872	Zoom Potentiation Ass'y	AR				



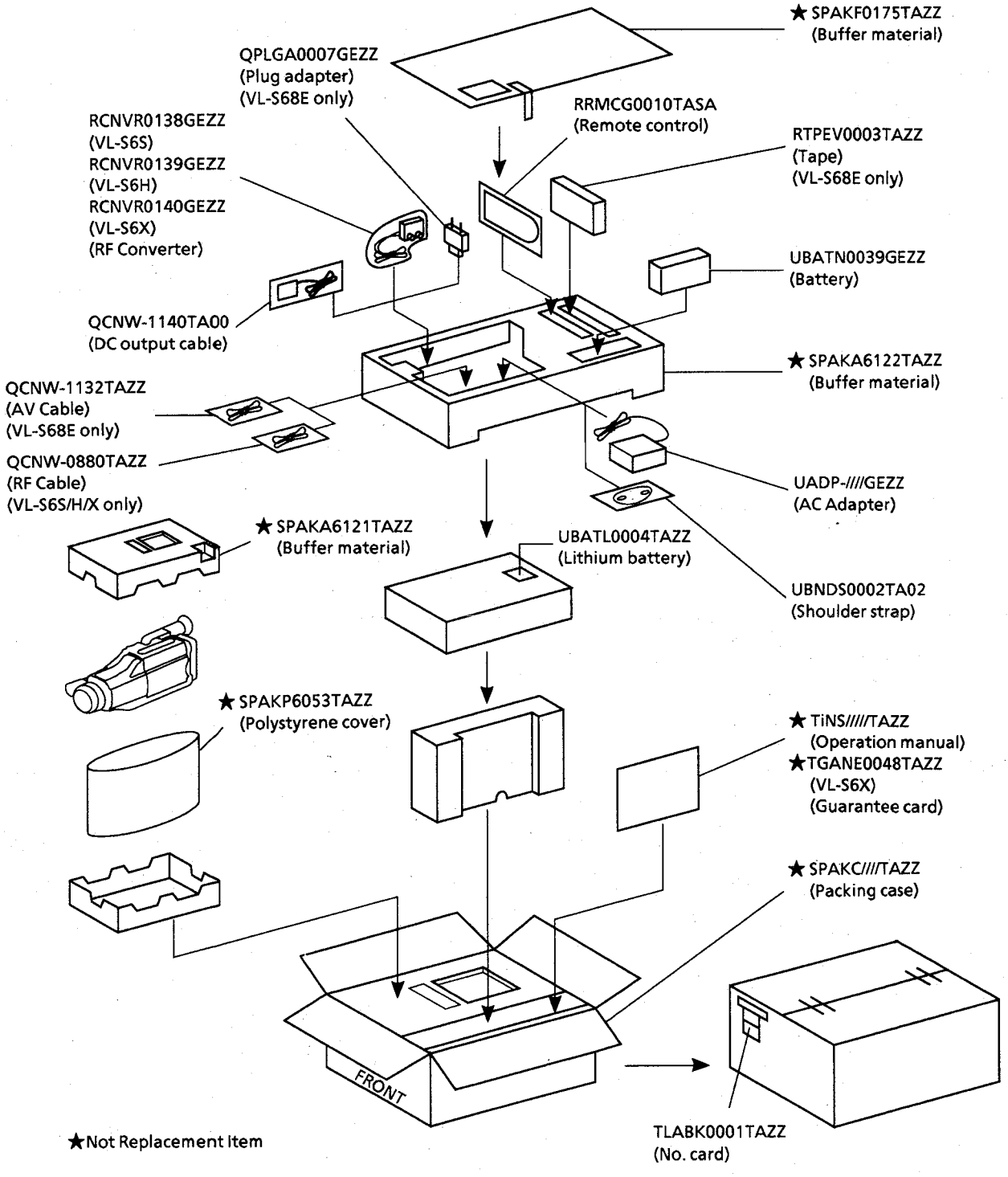
11. PACKING OF THE SET

• Setting positions of the switch

Full Auto SW	at "ON" Position
Power SW	at "OFF" Position
AV Terminal Cover	at "SHUT" Position
SP/LP Select Knob	at "SP" Position

• Accessory part code list by models

Model	AC adapter	Operation manual	Packing case
VL-S6S	UADP-0158GEZZ	TiNSL0027TAZZ	SPAKC6301TAZZ
VL-S6H	UADP-0159GEZZ	TiNSE0132TAZZ	SPAKC6302TAZZ
VL-S6X	UADP-0157GEZZ	TiNSE0133TAZZ	SPAKC6303TAZZ
VL-S68E	UADP-0160GEZZ	TiNSZ1356TAZZ	SPAKC6304TAZZ



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